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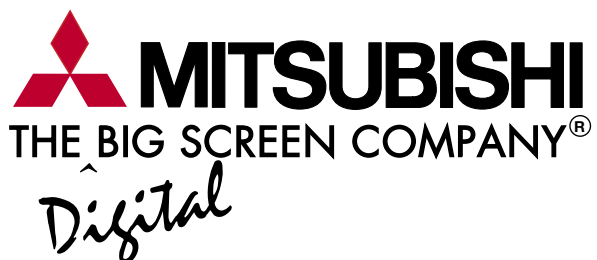


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<http://www.myprojectorlamps.eu>

The following projector manual has not been modified or altered in any way.



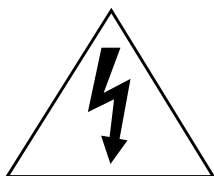
Owner's Guide Book 1

WL-82913

Connections and Maintenance



visit our website at
www.mitsubishi-tv.com



CAUTION

**RISK OF ELECTRIC SHOCK
DO NOT OPEN**



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user of the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be sufficient magnitude to constitute a risk of electric shock.



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 appliance.

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.

CAUTION: To assure continued FCC compliance, the user must use a shielded video interface cable with bonded ferrite cores at both ends, when using the PC or DVI input.

Changes or modifications not expressly approved by Mitsubishi could void the user’s authority to operate this equipment.

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

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

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

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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, 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 or adult and serious damage to the TV. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the TV. Any mounting of the TV should follow the manufacturer's 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. 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.

IMPORTANT SAFEGUARDS, cont'd.

12. 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.

13. Overloading

Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

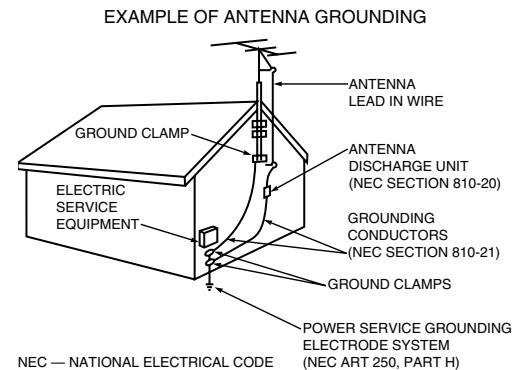
14. Object and Liquid Entry

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.

Section 810 of the National Electric Code, ANSI/NFPA No. 70-1984, 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:

- When the power-supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the TV.
- If the TV has been exposed to rain or water.
- 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.
- If the TV has been dropped or the cabinet has been damaged.
- 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.

Our Thanks...

Thank you for choosing Mitsubishi as your premier Home Entertainment provider.

This Owner's Guide describes the features and functions of your Mitsubishi widescreen, high definition TV. We urge you to examine this Owner's Guide to become familiar with the innovative features and operations this unique television offers.

The very core of our corporate philosophy is to provide our customers with the very best. Our development team at Mitsubishi has worked to provide you with a television that defines "state-of-the-art," with the capability to meet your needs now and in the future.

Whether this is your first Mitsubishi electronic product, or an addition to your Mitsubishi collection, we believe you and your family will continue to enjoy your Mitsubishi home theater for many years.

Thank you,

Mitsubishi Digital Electronics America, Inc.

Chapter . . .

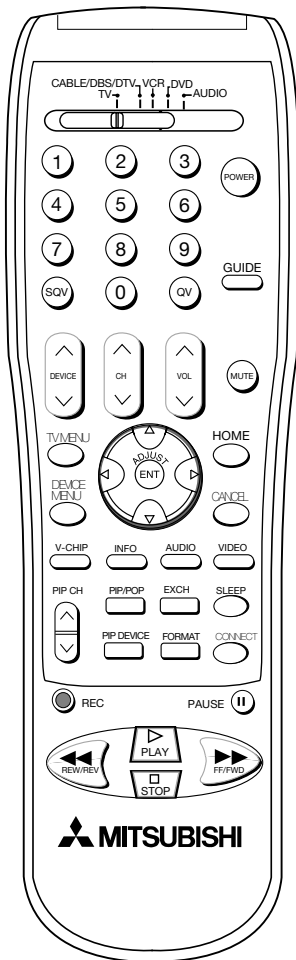
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Television Overview

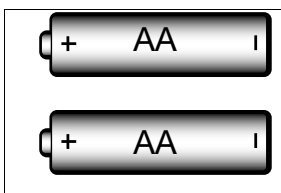
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Unpacking the TV's Accessories

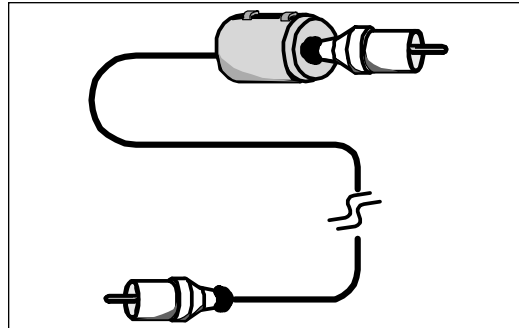
Please take a moment to review the following list of items to ensure that you have received everything including:



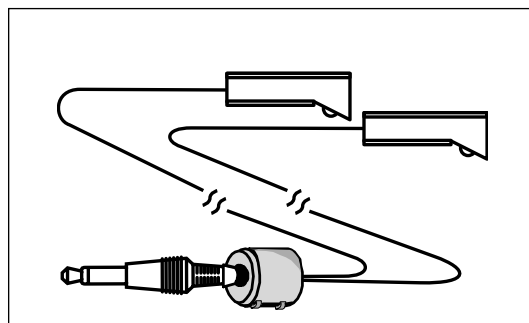
1. Remote Control



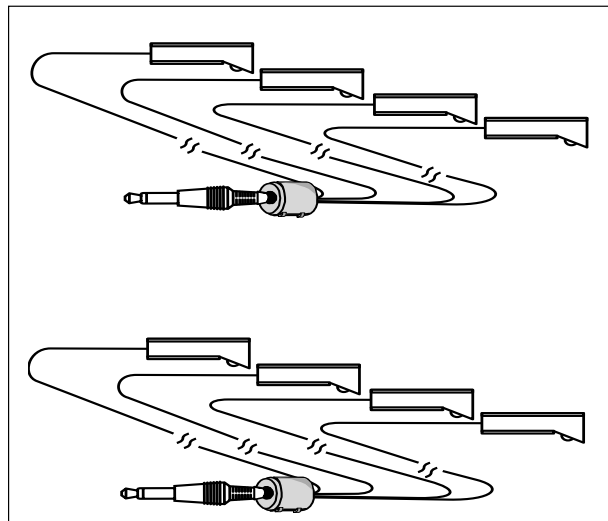
2. (Two) AA Batteries



3. (One) Digital Audio Cable



4. (One) Double IR Emitter Cable



5. (Two) Quadruple IR Emitter Cables

6. Product Registration Card (not pictured)

7. Owner's Guides (Book 1 and Book 2, not pictured)

8. Quick Reference Card (not pictured)

9. (Four) cabinet screws and washers (not pictured)

TV Delivery and Installation, Cabinet Assembly

For Mitsubishi Dealers and Service Personnel Only

The WL-82913 Cabinet has four pieces, consisting of:

TV (two packages)

Diamond Shield (see following pages for assembly instructions)

Arc (see following pages for assembly instructions)

IMPORTANT

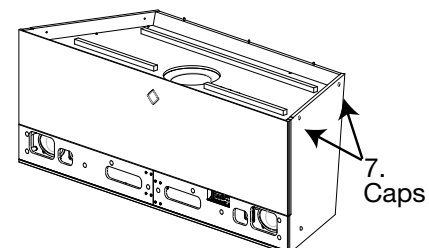
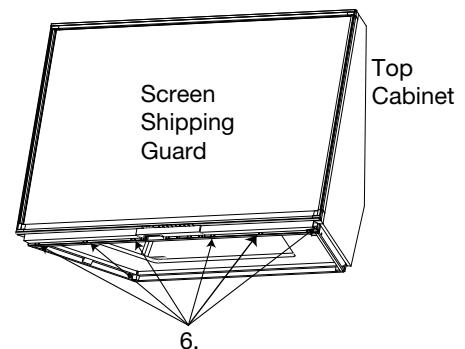
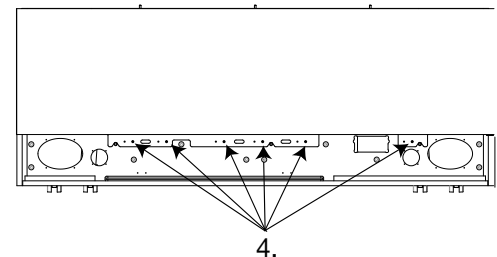
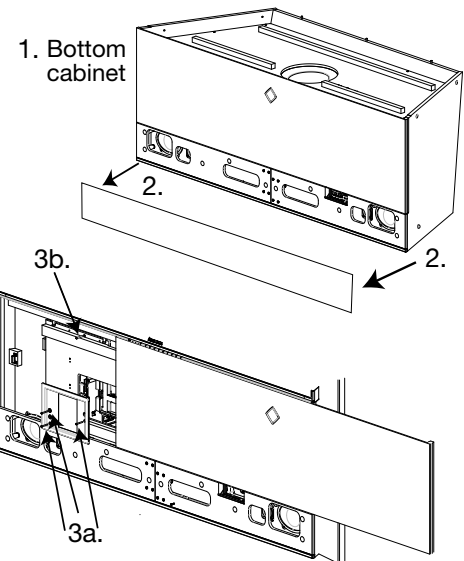
This projection television weighs over 500 pounds and has many sensitive components. Any assembly or dismantling procedure should be done by authorized Mitsubishi dealers or service personnel ONLY.

Assembly or dismantling should be done by at least 2 people.

This TV is very heavy! Exercise extreme care when moving TV as foreign material may become embedded in the castor wheels which could damage wood or other delicate flooring.

Cabinet Assembly

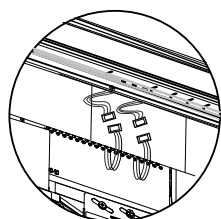
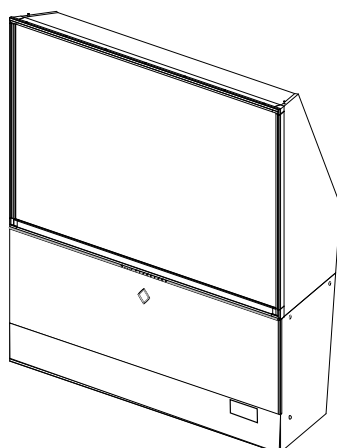
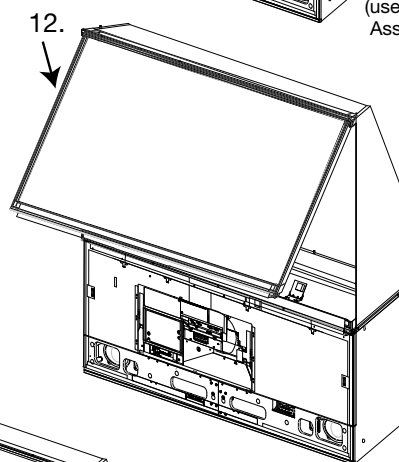
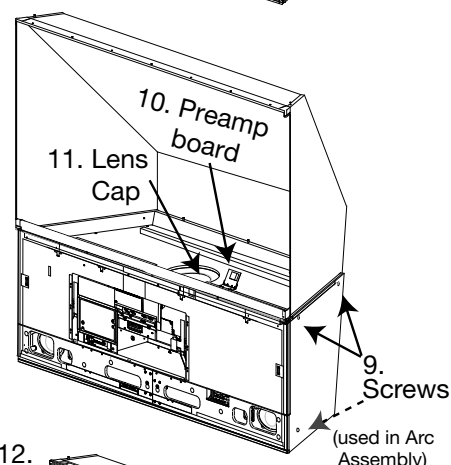
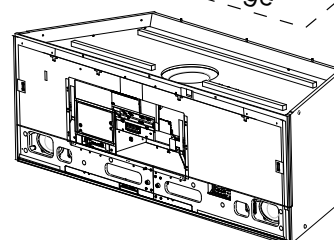
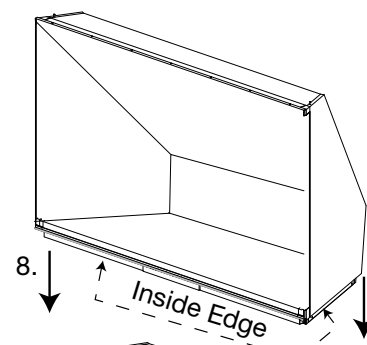
1. Carefully remove the bottom cabinet from the packaging and place at desired location on a level floor. Tilting the cabinet can also tilt the lamp cartridge, which may reduce the lamp's life.
2. Carefully remove the speaker grille from the bottom assembly by pulling out each side and temporarily place aside.
3. Carefully:
 - a. Slide the glossy front panel open and remove the three (3) screws securing the plastic lamp cover. Place screws and cover aside.
 - b. Remove the front panel assembly top screw located on the top wooden flange above the top track, and set aside.
4. Carefully remove the glossy front panel by slightly sliding the panel closed and then removing the six (6) screws located on the bottom wooden flange below the bottom track. Slide the panel open 3" and then lift upward and swing out. Temporarily place aside. Note: Panel, tracks and track mounting come off the TV as one unit.
5. Carefully remove the top cabinet from the packaging and place on the floor next to the bottom cabinet.
6. Carefully remove the screen frame (with the cardboard screen shipping guard still attached) from the top cabinet by removing the six (6) screws under the screen frame. Gently angle the bottom of the front screen edge outward and lift upward to remove the frame. Temporarily place the screen frame assembly aside.
7. Remove the top two black glossy caps from each side.



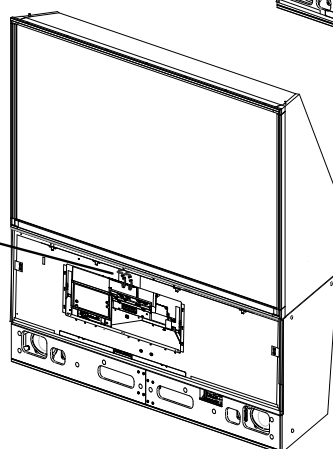
TV Delivery and Installation, Cabinet Assembly, continued

8. Carefully lift the top cabinet onto the bottom cabinet by aligning the inside edge of the top cabinet to the inside edge of the bottom cabinet. KEEP FINGERS CLEAR OF ALL JOINTS DURING ASSEMBLY.
9. Insert the two top screws (from the accessory bag), on each side, securing the top back screw first. If you are installing the optional Arc Assembly, then slightly loosen (4 mm) the front top and bottom screws and place the black glossy caps only over the back screw. If you are not installing the Arc, tighten the front screw and replace both caps.
10. Carefully remove the Preamp board from the packaging bag and assemble to the bottom cabinet. Attach wiring by clicking the plastic wire harness together.
11. Remove the black plastic lens cap, to the left of the preamp board, by pulling the cap straight up and off.
12. Carefully lift the screen frame (including the cardboard screen shipping guard) into place. To secure the frame, the top should rest into the cabinet's metal brackets at the top, while the bottom is angled 45° outward. Swing the frame into place and gently push down starting at the center and working to the outside. Once in position, install the six (6) screws removed in step 6.
13. Connect the two lead wires from the screen frame's control panel to the bottom cabinet by clicking the two plastic wire harnesses together.
14. Carefully lift the glossy front panel into place. Slide the panel upward toward the screen frame and gently rest on the three dowel pins. Install the top screw removed in step 3b. Slide the front panel door closed. Install the six (6) screws removed in step 4.
15. Carefully slide the front panel open and install the plastic lamp cover and the three (3) screws removed in step 3a.
16. Install the speaker grill by pushing the plastic posts into the grommets. Speaker grille should only be installed by hand.
17. Remove the cardboard screen shipping guard from the front of the screen assembly by removing the tape around the frame.

To dismantle this TV, please reverse the steps, starting with step 14.



13.



TV Delivery and Installation, Diamond Shield™ Installation and Removal

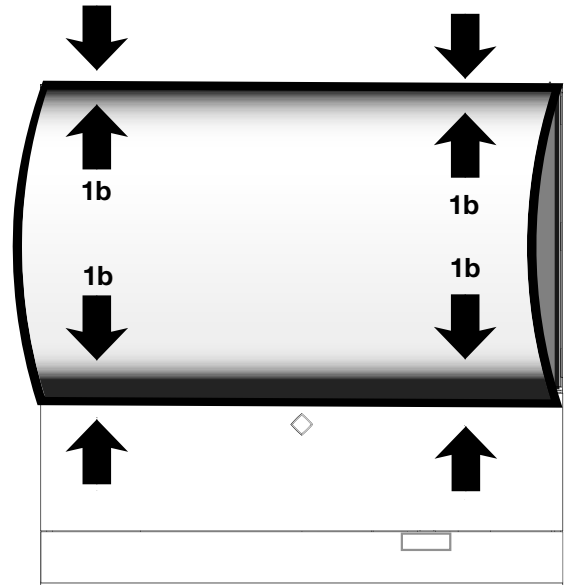
Included in the Diamond Shield package are the following items:

- (1) Diamond Shield with pre-installed molding clips

Because of the screen size, it is recommended that two people install or remove the Diamond Shield.

1. To Install the Diamond Shield:

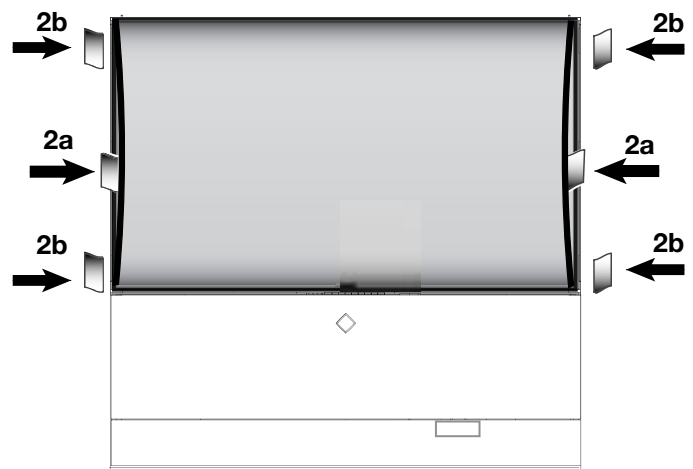
- a. While wearing soft cotton gloves, carefully remove the Diamond Shield from the protective packaging. Wipe off any dust with a lint-free cloth. Do not use any cleaners on the anti-glare Diamond Shield.
- b. The bottom of the Diamond Shield has a Mitsubishi logo. With one person on each side of the Diamond Shield, begin by sliding this end into the bottom channel. Then, gently bow the shield toward you and insert the top edge into the top channel, under the silver trim on the frame.
- c. The three molding clips on the left and right side will now snap into place. Begin by pressing the bottom corner clip into place. Do not force the clips.



This completes the Diamond Shield installation.

2. To Remove the Diamond Shield:

- a. While wearing soft cotton gloves, loosen the middle left and right molding clips by pressing a small plastic card (the size of a standard credit card or a clean, plastic, putty knife) into the opening. The middle molding clip will disengage from its slot.
- b. Next, loosen the top and bottom left and right molding clips, with the card or plastic putty knife. The entire molding clip will pop out. Do not force the clips.
- c. With one person on each side of the Diamond Shield, press on the top edge until it comes out of the channel. Pull the screen up to remove it from the bottom channel. Store the Diamond Shield in its original packaging, if possible.



WARNING

Sharp edges! Always wear gloves to handle, lift, install and remove the Diamond Shield.

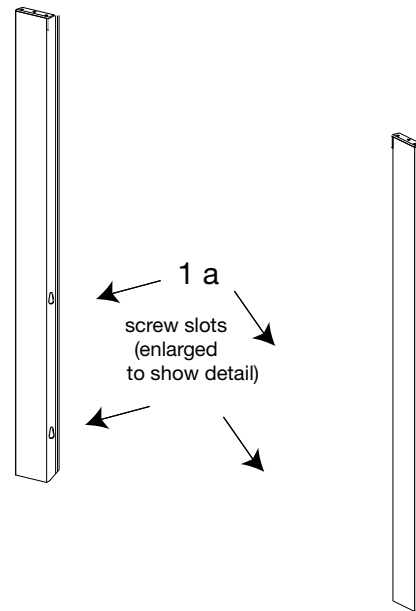
TV Delivery and Installation, Arc Assembly Installation

NOTE: The use of the Arc Assembly is optional. It is an enhancement to the TV cabinet appearance.

The Arc for the WL-82913 should be assembled and installed after the Cabinet Assembly and Diamond Shield Installation. It is recommended that 2 people assemble this unit.

The Arc includes the following:

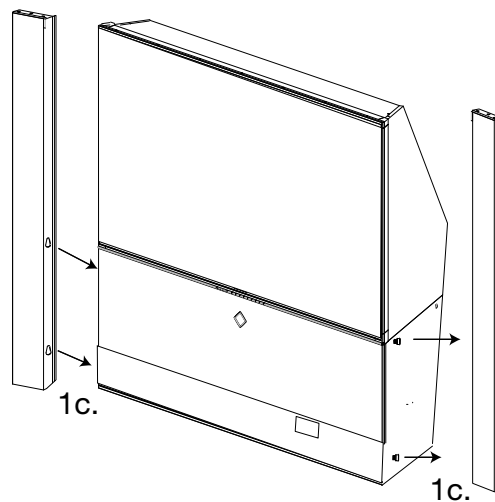
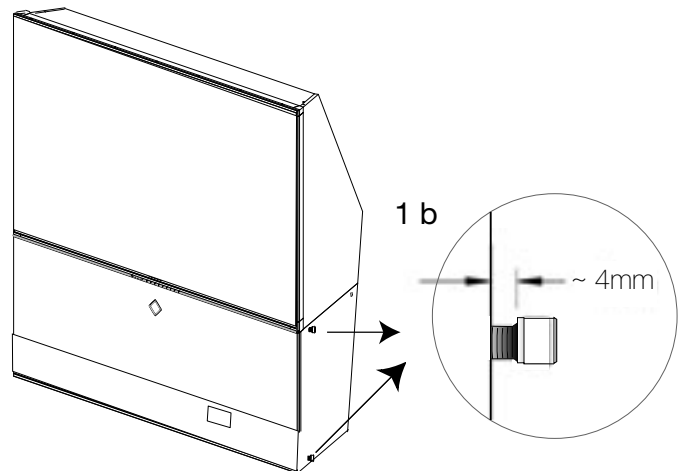
- 2 interlocking top pieces
- 2 leg pieces
- 8 screws
- 2 dowel pins



Arc Assembly and Installation

1. Arc Sides:

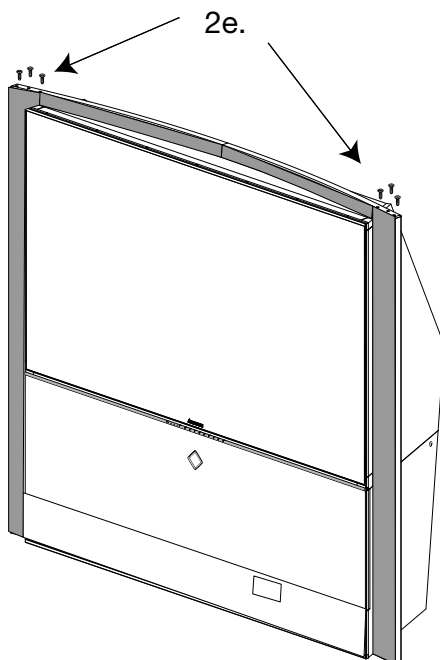
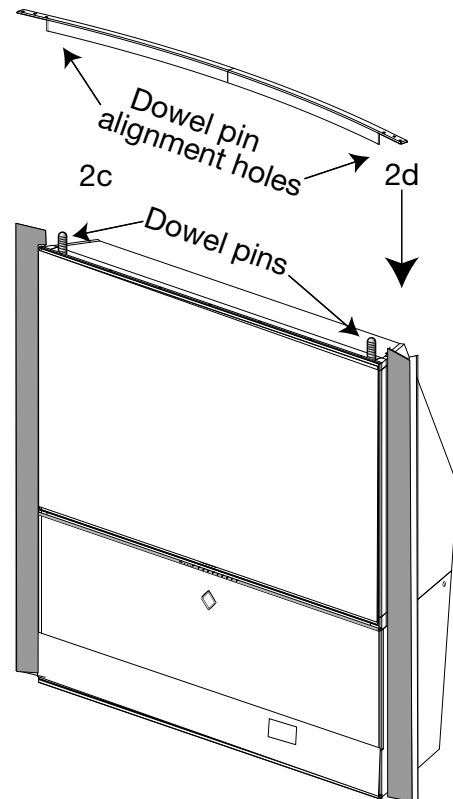
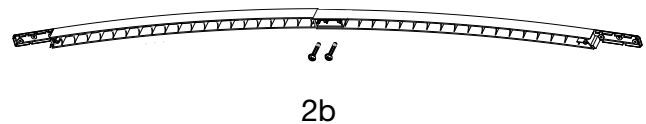
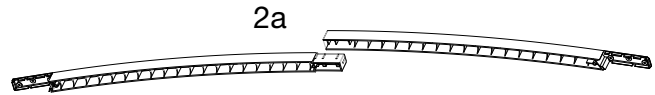
- Note the location of the two screw slots on the inside of each arc assembly leg. These slots fit over the cabinet side front screws.
- Remove the glossy caps and then loosen the two front screws, of the cabinet assembly. There should be at least 4mm of clearance between the screw head and the cabinet surface.
- Carefully fit the Arc sides onto the TV. The screws on the TV will fit into the screw slots on the Arc.



TV Delivery and Installation, Arc Assembly Installation, continued

2. Arc Top:

- a. Fit the top two pieces together. These pieces interlock in the middle.
- b. Insert two of the screws into this middle section from the bottom.
- c. Remove the two dowel pins from the Arc accessories bag and install them on top of the cabinet.
- d. Carefully place the assembled arc top piece onto the TV. The dowel pin alignment holes on the arc top will fit into the dowel pins. The arc top will snap into the arc sides.
- e. To secure the arc top to the arc sides, use the remaining six screws. The screws are inserted from the top, three on each side.



Special Features

Your new High Definition bigscreen television has many special features that make it the perfect center of your home entertainment system. These special features include:

High Definition 3-chip LCoS Display System

Your Mitsubishi bigscreen HDTV uses the latest in display technology -- Liquid Crystal on Silicon or LCoS. This system uses three LCoS chips (one chip for each of the primary colors of red, green and blue), each with a 1920 x 1080 pixel pattern to create the image. This technology uses reflective panels instead of phosphors, providing a brilliant high definition image with no phosphor aging.

This TV is truly a high performance multimedia monitor uniquely capable of both stunning high definition video images and clear detailed high resolution PC images. Your TV is able to accept video signals in the standard video scanning rates of 480i, 480p, 720p and 1080i. It is also able to accept PC resolutions from VGA (640 x 480) through WXGA (1365 x 768). When using a compatible graphics card and controlling software, this TV is also able to accept custom PC resolutions of 720p (1280 x 720) and 1080p (1920 x 1080). The WL-82913 is currently the largest self-contained rear projection TV available.

Fully Integrated HDTV

Your Mitsubishi bigscreen TV can receive all approved terrestrial broadcast digital signals, non-scrambled digital cable signals, terrestrial analog signals and non-scrambled analog cable signals that use a standard offset carrier system. Further, your TV will display all High Definition signals as 1080p. True HDTV™ and all standard definition signals will also be displayed as 1080p.

NetCommand® Home Network Control System

Your Mitsubishi bigscreen HDTV offers a new level of networking to combine selected older products with new and future digital products. NetCommand supports IEEE 1394 connections, HAVi (Home Audio Video Interoperability) Control system, Audio Video Control system (AV/C), 5C copy protection and IR control of selected older products such as VCRs, DVD players, cable boxes or satellite receivers. NetCommand includes the ability to learn remote control signals directly from many remote controls, allowing you to customize the NetCommand system in a way that works best for your viewing.

Wide Screen Picture Format

Enjoy a full theatrical experience in the comfort of your home. View pictures as film directors intended them. Both digital television broadcasts and DVDs support the widescreen format well-suited for your new TV.

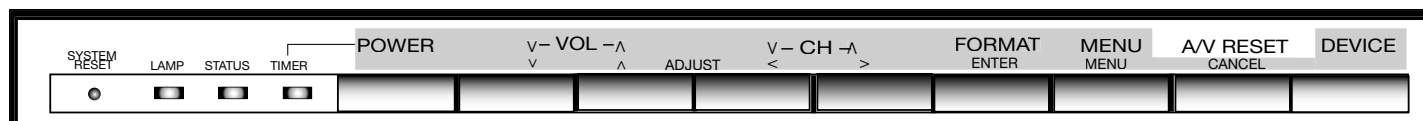
PIP/POP Viewing Option

Using Picture-in-Picture and Picture-outside-Picture will give you exciting options for viewing your favorite programs.

V-Chip Technology

Your Mitsubishi bigscreen will allow you to restrict viewing of programming by general content, category contents, or even by time.

Front Control Panel Buttons



The buttons on the Front Control Panel highlighted in gray are duplicated on the remote control. The top row of labels show the control functions when there are no TV menus displayed on the screen. The bottom row of labels show the control functions when the TV menus are displayed on the screen or when a special function has been activated. See Remote Control Overview in book 2, for further details on the functions of these buttons.

System Reset

If the TV will not respond to either the remote control or the front panel controls and will not power off, press the SYSTEM RESET button with a pointed item like the end point of a paperclip. The TV will turn Off and the TIMER light will flash quickly for about one minute. When the TIMER light stops flashing, you may turn on the TV again. The changes you made while the TV was On before you used the SYSTEM RESET button may be lost, however, the changes that were previously saved are not lost.

Indicators

Please refer to the table below for conditions when the indicator lights will display.

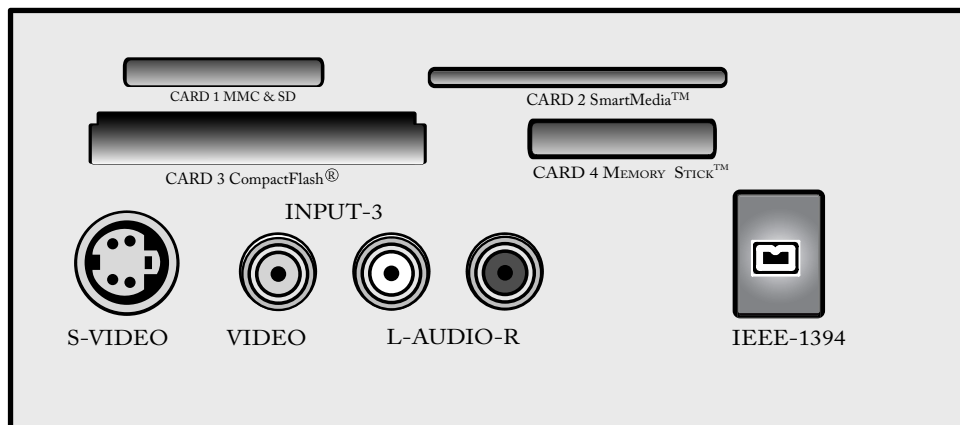
COLOR	LAMP	STATUS	TIMER/POWER
None (off)	Power off	Power off	Power off
Green (steady light)	n/a	n/a	Power on
Green (fast blinking light)	n/a	n/a	Starting up*
Green (blinking light)	n/a	n/a	TV Timer is set
Yellow (steady light)	Lamp life end warning. A new lamp should be purchased. See Book 1, Appendix B.	Operating temperature is too high. The dust filter may be dirty See Book 1, Appendix A. or The room temperature too hot. Turn off TV until room is cooler.	n/a
Yellow (blinking light)	Lamp cover door is open or Lamp cartridge not secure. See Book 1, Appendix B.	n/a	n/a
Red	Lamp has failed, replacement is required. See Book 1, Appendix B.	Service required. Turn off TV and call your dealer or a Mitsubishi Authorized Service Center. See www.mitsubishi.com or call 1-800-332-2119.	n/a

*Each time the TV is plugged into the wall electrical outlet, when power is restored after a power failure, after powering On from the Low Energy mode, or using the SYTEM RESET button this light will display for about one (1) minute.

A/V Reset

Press this button to reset all Audio and Video memories to the factory default settings.

Front Control Panel Memory Card



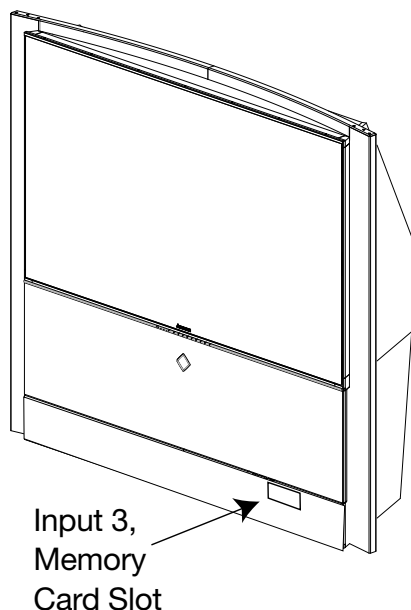
Input 3

This input can be used for convenient connection of a camcorder or other video device to the TV. Please note that if you connect to the S-VIDEO terminal, the VIDEO terminal is deactivated. The VIDEO terminal is active when there is no S-Video connection.

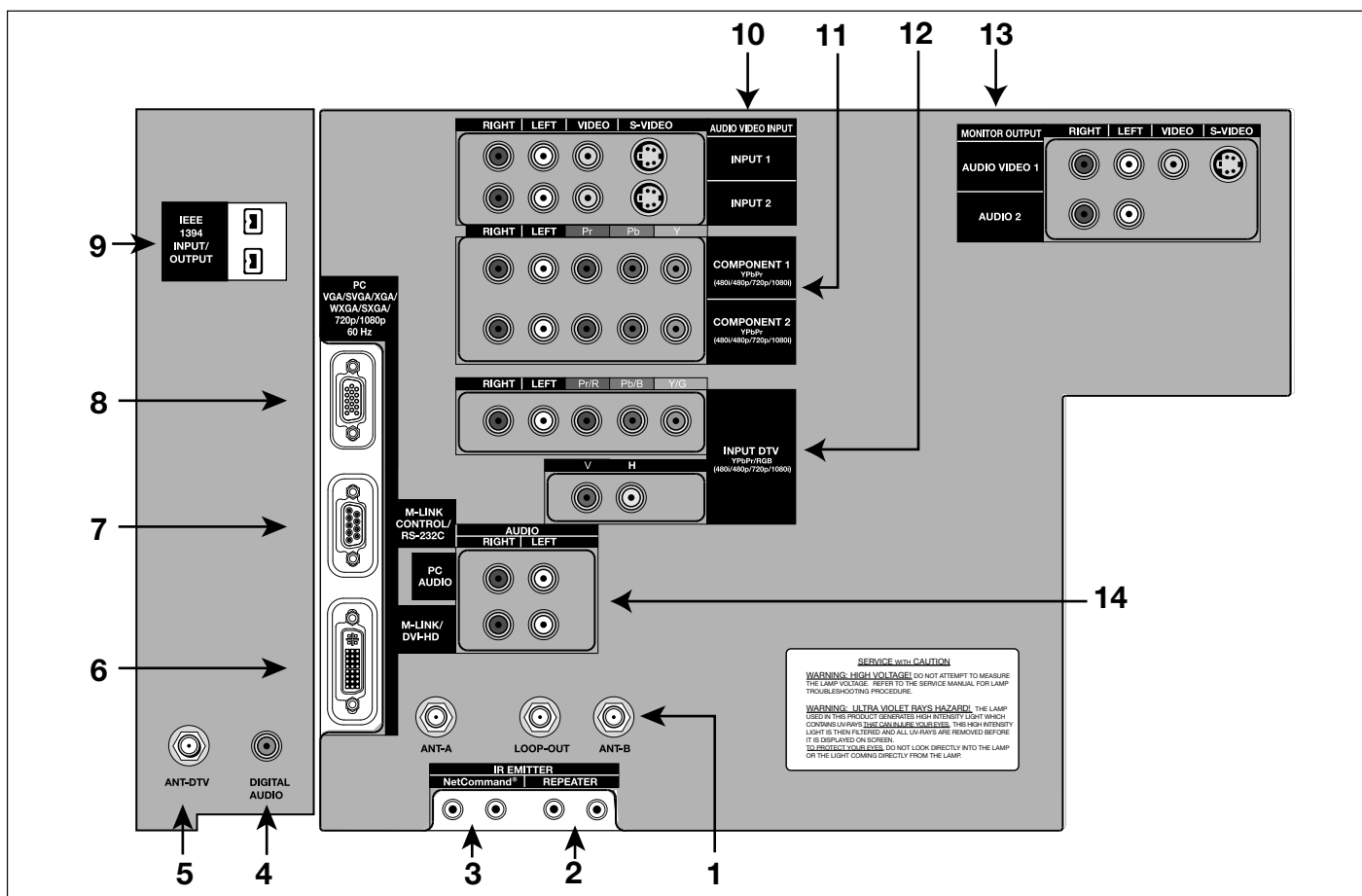
Memory Card Slots and IEEE 1394 input/output

There are four card slots in the front of the TV that allow the display of JPEG pictures from many digital cameras, MP3 or WMA audio files recorded from computers or other digital recording devices. The card slots are designed for specific types of cards and other cards or objects should not be inserted into the slots as this may damage the TV. CARD 1 slot is compatible with both MultiMediaCard™ (MMC) and Secure Digital (SD) cards. CARD 2 slot is compatible with SmartMedia™ cards. CARD 3 slot is compatible with CompactFlash® cards and CARD 4 is compatible with MEMORY STICK™ cards. See Memory Card (slideshow, playlist) Setup in book 2 for details about JPEG, MP3 and WMA file types that are compatible with the TV.

The IEEE 1394 input/output allows for temporary connection of IEEE 1394 devices such as some camcorders, to the front of the TV. This connection works the same way as rear IEEE 1394 connections, please refer to the NetCommand® chapter in book 2 for details.



Back Panel



1. Antenna (ANT-A, LOOP OUT, and ANT-B)

ANT-A and ANT-B receive analog NTSC signals from VHF/UHF antennas or an analog NTSC cable system. LOOP OUT sends the ANT-A signal out to another component, such as a cable box or VCR.

2. IR Emitter-Repeater

Two jacks are provided for connecting IR emitters. Connecting IR infrared emitters here allows the TV to pass IR commands from most IR remote controls to other A/V devices that are out of range of the remote control.

3. IR Output-NetCommand®

Two jacks are provided for connecting IR emitters. IR Emitters connected to these jacks are used by the NetCommand system of the TV to control external analog devices such as VCRs, DVDs, cable boxes satellite receivers and audio receivers.

4. Digital Audio Output

This output provides Dolby Digital audio, received in the signal from the ANT-DTV input and IEEE-1394 devices. This output is intended to be connected to an external audio receiver that is capable of decoding the digital stream and converting it to analog signals suitable for driving loudspeakers. This output does not send a signal

while analog devices connected to other inputs are being use, when MP3 or WMA cards are being played, or when MPEG audio signals are being received. These audio signals are decoded by the TV internally and are output as analog left and right audio to TV speakers by the Monitor Output.

5. Antenna DTV (ANT-DTV)

This input receives digital TV signals from a VHF/UHF antenna or unscrambled digital cable system. If the TV receives scrambled cable signals on this input, it will not be able to decode them. In this case, your cable company must provide a decoding box.

6. M-LINK (MonitorLink™) /DVI-HD

MonitorLink when used with MonitorLink Control is a Mitsubishi exclusive proprietary digital interface for the display of high quality digital video signals from a Mitsubishi HD Receiver/Controller, such as the HD-5000.

The MonitorLink input can also be used as a DVI input from other sources. The left and right audio allow the external Mitsubishi HDTV Receiver/Controller or DVI set-top box to provide audio to the TV to be able to use the TV speakers. When MonitorLink is used as DVI, it is HDCP compatible.

Back Panel, continued

NOTE: When MonitorLink is used as a DVI-HD input, the terminal is compliant with EIA-861 standards for extended and high definition video and is not intended for use with personal computers or devices outputting video signals with computer resolution.

7. MonitorLink™/RS-232C Control

A digital control interface that works in conjunction with MonitorLink. While MonitorLink provides the digital video signal, MonitorLink Control provides enhanced functioning such as automatic power ON/OFF and input selection. If you are not connecting a Mitsubishi HDTV Receiver/Controller with MonitorLink features, MonitorLink Control can be used as an RS-232C control signal input port with an external control system. Please visit www.mitsubishi-tv.com for RS-232 command protocol.

8. PC Video, VGA/SVGA/XGA/WXGA/SXGA/720p/1080p 60Hz

This input can be used for the connection of a computer. Please see Appendix B in Book 2 for signal compatibility. If NetCommand has not been setup, the on-screen display name will be VGA.

9. IEEE-1394 Input/Output

These jacks allow the TV to connect to external digital products by means of a single cable. Three (two on the back panel and one on the front) jacks are provided for this purpose, which allow for a high degree of flexibility for connecting your system together. Please refer to the NetCommand information later in this book for IEEE-1394 device connection details.

10. Audio/Video Inputs 1-2

These inputs can be used for the connection of a VCR, Super VHS (S-VHS) VCR, DVD player, standard satellite receiver or other A/V device to the TV. Please note that if you connect to the S-VIDEO terminal, the VIDEO terminal is deactivated. The VIDEO terminal is active when there is no S-VIDEO connection.

11. Component Inputs 1-2, YPbPr (480i/480p/720p/1080i)

These inputs can be used for the connection of A/V equipment with component video outputs, such as a DVD player or external HDTV receiver. Please see Appendix B in Book 2 for signal compatibility.

12. Input DTV (480i/480p/720p/1080i)

This input is used to connect an external DTV receiver, and can be configured for YPrPb or RGB plus H&V signal types. Please see Appendix B for signal compatibility.

13. Monitor Output (Audio Video 1, Audio 2)

The Monitor Output sends the TV audio and video signals from Ant-A, Ant-B or Inputs 1-3 to an A/V Receiver or other analog A/V equipment. Ant-DTV and IEEE 1394 sources will be provided as down converted analog signals to the Monitor Output jacks.

There will be no video signals from digital products if the original signals are copy protected. No video signals are provided from PC, Component 1 and 2, MonitorLink or Input-DTV.

For recording with a VCR, use Audio Video 1. When connecting to an A/V Receiver, use Audio 2. If using the A/V Receiver with NetCommand, the Audio 2 output will always be Main, not PIP. If using an A/V Receiver without NetCommand and Audio 2 is set for PIP audio then the PIP's or POP's audio signal is sent to an amplifier or wireless headphones. If no PIP or POP is displayed, the output will not send audio.

14. Audio for PC or MonitorLink/DVI-HD

Audio signals are provided from PC or MonitorLink/DVI-HD. The top two connectors are audio inputs to be used with the PC input. The bottom two connectors are to be used with MonitorLink/DVI-HD inputs.

Chapter . . . **2**

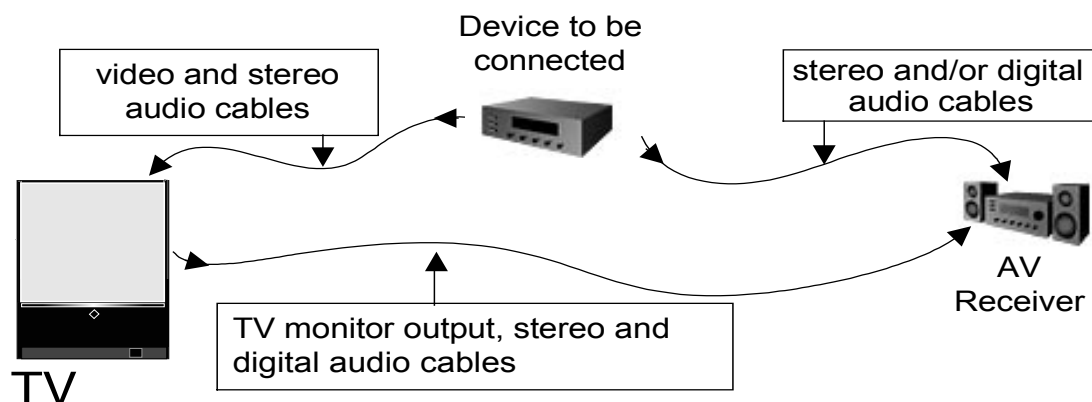
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Connecting External Devices & NetCommand® Setup

NetCommand is able to control many current audio and video devices by sending remote control signals from the TV to each device. NetCommand is also able to learn the remote control signals used by most audio video devices not already in the TV's memory. NetCommand will also automatically switch the TV and compatible or learned Audio/Video (A/V) Receivers to the correct input used with each device. It is important that the inputs on the TV and A/V Receiver match the NetCommand Setup.

To simplify the installation of NetCommand, there is a step-by-step on-screen NetCommand Setup procedure. This procedure details the type and brands of devices you are connecting to the TV. The NetCommand Setup also assigns preset TV and A/V Receiver inputs for each device. You should connect each device to the TV input (both audio and video) and to the A/V Receiver (audio) as shown in the figure below.



The following charts show which preset inputs you should use on the TV and A/V Receiver. Chart 1 shows TV inputs. Chart 2 shows the A/V Receiver inputs used by A/V Receiver models already known by NetCommand.

Device Audio and Video Outputs to TV Inputs	
Antenna/Cable (analog)	Ant-A
Antenna/Cable (digital)	Ant-DTV
Cable box	Ant-B
VCR	Input-1
Satellite Receiver (DBS)	Input-2
Camcorder	Input-3
DVD Player	Component-1

Chart 1.

	Mitsubishi 1	Mitsubishi 2	Bose	Denon	Integra	Kenwood	Marantz	Pioneer 1	Pioneer 2	Rotel	Sony	Yamaha 1	Yamaha 2
	Model M-VR800 & M-VR1000	Model M-VR900 & M-VR700	Model Lifestyle® 28	Model AVR-2700	Model DTR-9.1	Model VR-2080	Model SR8200	Model VSX-D557	Model VSX-49TX	Model RSX-1065	Model STR-DE825	Model RV-X2095	Model RX-V2200
Device Audio Output to	AV Receiver Inputs by Name												
VCR	VCR 1	VCR	VCR	VCR-1	Video 1	Video 1	VCR1	VCR/Tape	VCR 1/DVR	Video 2	Video 1	VCR 1	VCR 1
Satellite Receiver	Aux	Cable/DBS	AUX	CD	Video 3	Video 3	DSS	CD	SAT	Video 4	TV/DBS	TV/DBS	D-TV/LD
DVD Player	DVD	DVD	(built-in)	DVDVDP	DVD	Video 4	DVD	LD/SAT	DVD/LD	Video 5	TAPE/MD	CD	DVD
TV Monitor Output (& Digital Audio)	TV	TV	TV	TV/DBS	Video 4	Video 4	TV	DVD/TV	TV	Video 1	DVD/LD	DVD/LD	CBL/SAT

Chart 2.

NetCommand setup details are explained in book 2. After the initial NetCommand Setup, you may go to Edit NetCommand at any time to change the inputs you used for connecting each device, custom name devices, add devices not included in the presets above or delete devices no longer used. You may also want to review Connecting: Helpful Hints, page 38 of this book, for frequently asked questions about NetCommand connections.

NetCommand® Pre-Memorized Devices

Below is a list of several manufacturers devices tested and shown to be compatible with the NetCommand control system. When you use these devices you will be able to control them without changing the setting of the remote control from TV to another product.

NetCommand may be able to operate additional models since many manufacturers use the same control signals to operate some or all of the models they offer. This chart lists only the models that have been tested with NetCommand. For each manufacturer, models other than those specified may be compatible.

If the manufacturer of the device you own is not listed below or if your device does not operate using the same remote control as the models listed below, you should use the learning feature to add your device to the NetCommand memory.

NetCommand Pre-Memorized Devices

Brand	AV Receiver	Cable Box	DBS Satellite Receiver	DVD Player	VCR
Mitsubishi	M-VR800, M-VR900		SR-HD5	DD-6000, DD-8020	HS-U795, HS-U778
Bose	Lifestyle® 28			Lifestyle® 28	
Denon	AVR-2700				
Echostar			6000		
Funi					F260LA
General Instruments		CFT2200			
Hitachi				DV-P415U	VT-FX665A
Hughes			HIRDE-45, HIRDE-86		
Integra	DTR-9.1			DPS-9.1	
Jerrold		Different Models			
JVC				XV-S65GD	HR-VP 650U
Kenwood	VR2080				
Marantz	SR8200				
Microsoft				XBox™*	
Motorola		Different Models			
Panasonic			TU-HDS20	DVD-A310	PV-8662
Philips					VR620CAT
Pioneer	VSX-D557, VSX-49TX			DV-414	
RCA			DRD480RE, DTC-100		
Rotel	RSX-1065				
Scientific Atlanta		8600			
Sharp					VC-H810U
Sony	STR-DE825		SAT-A55	DVP-S500D, PlayStation® 2**	SLV-778HF
Toshiba			DTS-300	SD-9200, SD-5109	W-717
Yamaha	RX-V2095, RX-V2200			DVD-S520, DVD-S996	
Zenith			DTV1080		

* XBox™ requires the DVD kit from Microsoft

** Playstation® 2 requires the DVD Remote Controller kit from Sony; DVD Player software disc version 2.10

The remote control signals of most audio video devices can be learned by NetCommand. However, there will be some types of signals that cannot be learned.

For devices not listed in the table above, you can use the learning feature by selecting Other at the [Device] screen. The procedure for this is outlined in the Edit NetCommand section of book 2.

NOTE: There are many different types of remotes and some of them may not be compatible with the learning feature. Bright light near the TV screen can also adversely affect the learning feature. If it is not possible to learn a device, you will need to use the original remote control of the device, or program the TV remote to operate these devices in the traditional manner.

Connecting Antenna or Wall Outlet Cable for Digital Broadcasts

Antenna or Wall Outlet Cable for Digital Broadcasts

Figure 1

For cable or antenna with coaxial lead

Connect the incoming cable to ANT-DTV on the TV back panel.

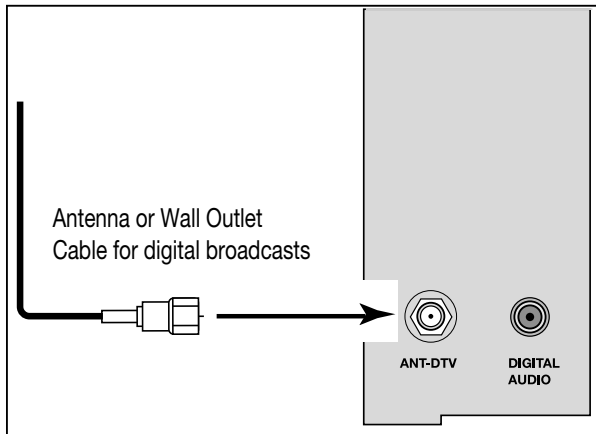


Figure 1. Antenna or Wall Outlet Cable for digital broadcasts

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

IMPORTANT

Additional connection cables are not provided with the TV. They are available at most electronic stores.

Connecting Separate UHF and VHF Antennas for Analog Broadcasts

Separate UHF and VHF Antennas for Analog Broadcasts

Figure 2

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

Note: UHF/VHF combiners are not provided with the TV. They should be available at most electronic stores.

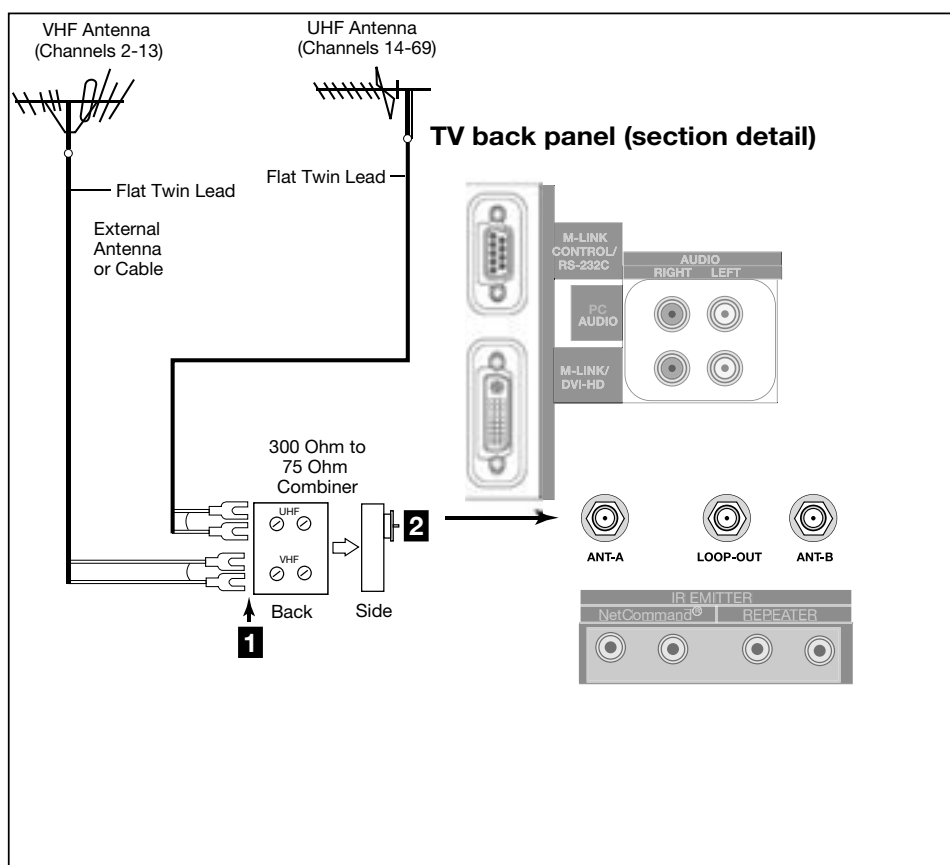


Figure 2. Connecting separate UHF and VHF Antennas

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

Connecting a Single Analog Antenna or Wall Outlet Cable

Single Analog Antenna or Wall Outlet Cable

Figure 3

For antennas with twin flat lead

1. For antenna with twin flat leads, connect the 300 Ohm twin leads to the 300 Ohm to 75 Ohm transformer.
2. Push the 75-Ohm side of the transformer onto ANT-A on the TV back panel.

Note: 300-Ohm to 75-Ohm matching transformers are not provided with the TV. They should be available at most electronic stores.

For cable or antenna with coaxial lead

3. Connect the incoming cable to ANT-A on the TV back panel.

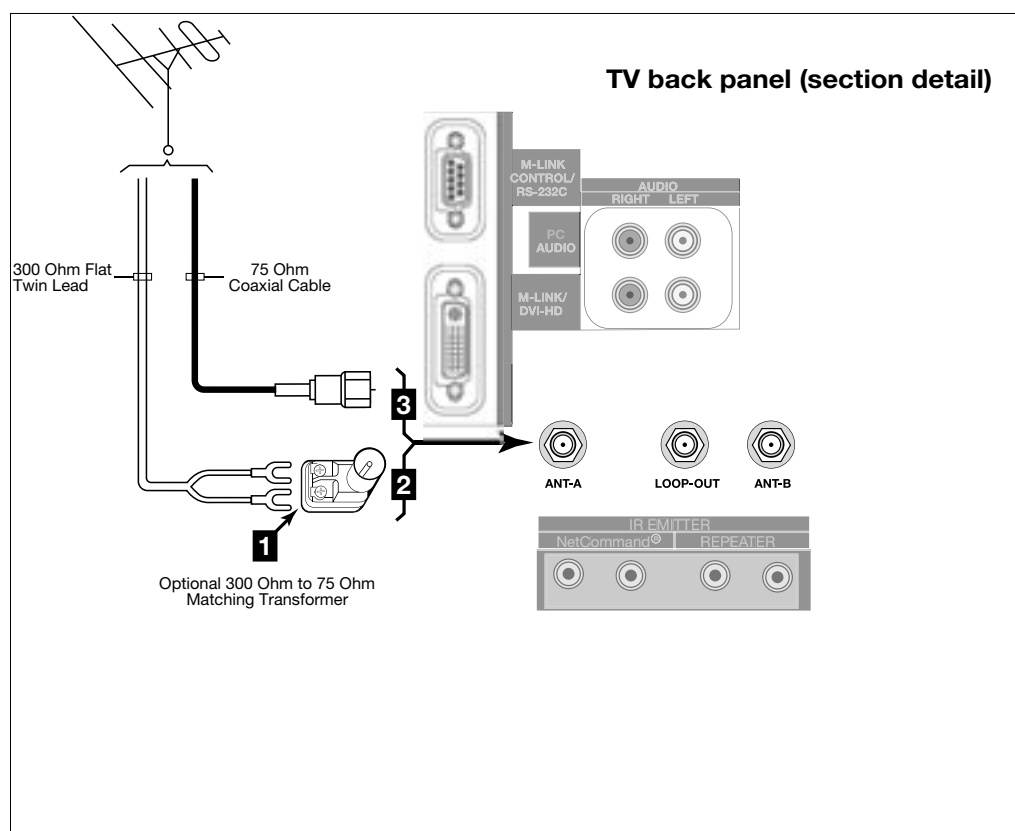


Figure 3. Connecting Antenna or Wall Outlet Cable for Analog Broadcasts

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

IMPORTANT

Additional connection cables are not provided with the TV. They are available at most electronic stores.

Connecting a Cable Box

Cable Box

Figure 4

1. Connect the incoming cable to ANT-A on the TV back panel.

Note: Connect two coaxial cables as follows:

2. One from LOOP-OUT on the TV back panel to IN on the cable box back panel.
3. One from OUT on the cable box back panel to ANT-B on the TV back panel.

Note: NetCommand assumes that your Cable Box will be connected to Ant-B or your VCR. Also, Channel 3 is the default output channel for the Cable Box. If either the connections or output channel are different, use the Change option of Edit NetCommand to apply the changes.

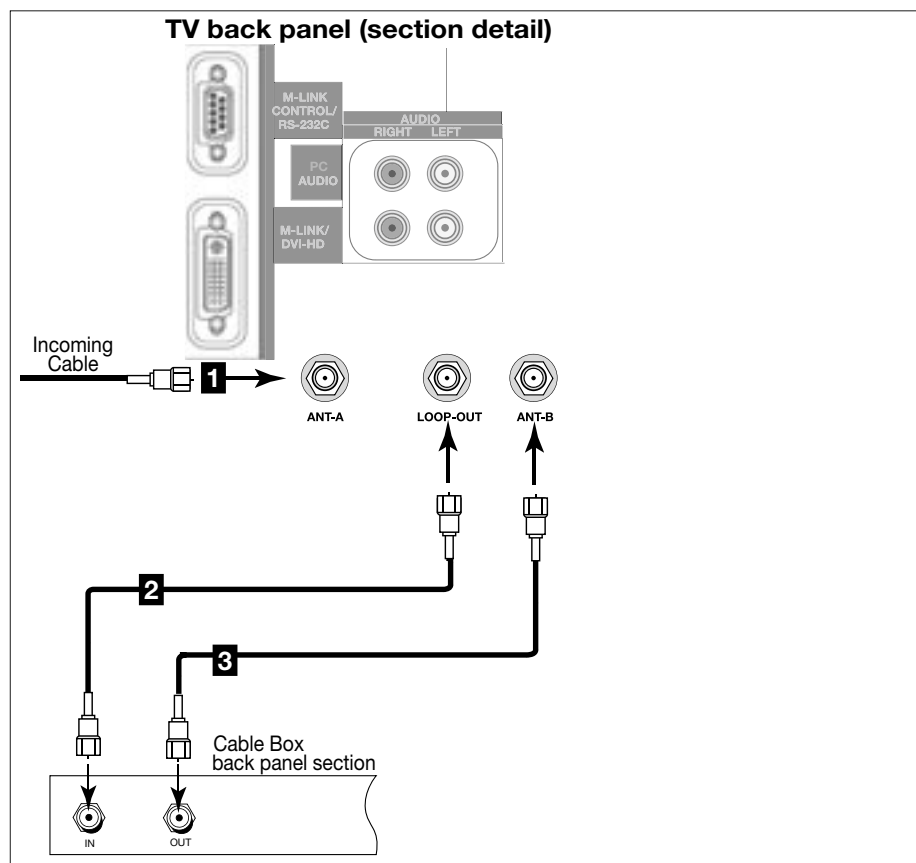


Figure 4. Connecting a Cable Box

IMPORTANT

Some cable boxes send return signals to your cable company in order to continue to operate and may not be compatible with the Loop-Out connector. In this case, use an RF splitter approved by your cable company and connect one output to the TV ANT-A directly and the other to the cable box input. Connect the cable box output to the TV ANT-B as shown.

Connecting an Analog VCR to Analog Antenna or Wall Outlet Cable

Analog VCR to Analog Antenna or Wall Outlet Cable

Figure 5

1. Connect the incoming cable to ANT-A on the TV back panel.

Connect two coaxial cables as follows

2. One from LOOP-OUT on the TV back panel to ANTENNA IN on the VCR back panel.

3. One from VCR back panel ANTENNA OUT to ANT-B on the TV back panel.

4. Now complete *Connecting Composite Video or S-Video and Audio Connections* step 1 and 2 on page 28.

Note: NetCommand assumes that your VCR will be connected to inputs as shown on this and page 28. If you use any other inputs for your VCR or add a second VCR, this change must match in the NetCommand system. See “Editing NetCommand” in book 2 for more information.

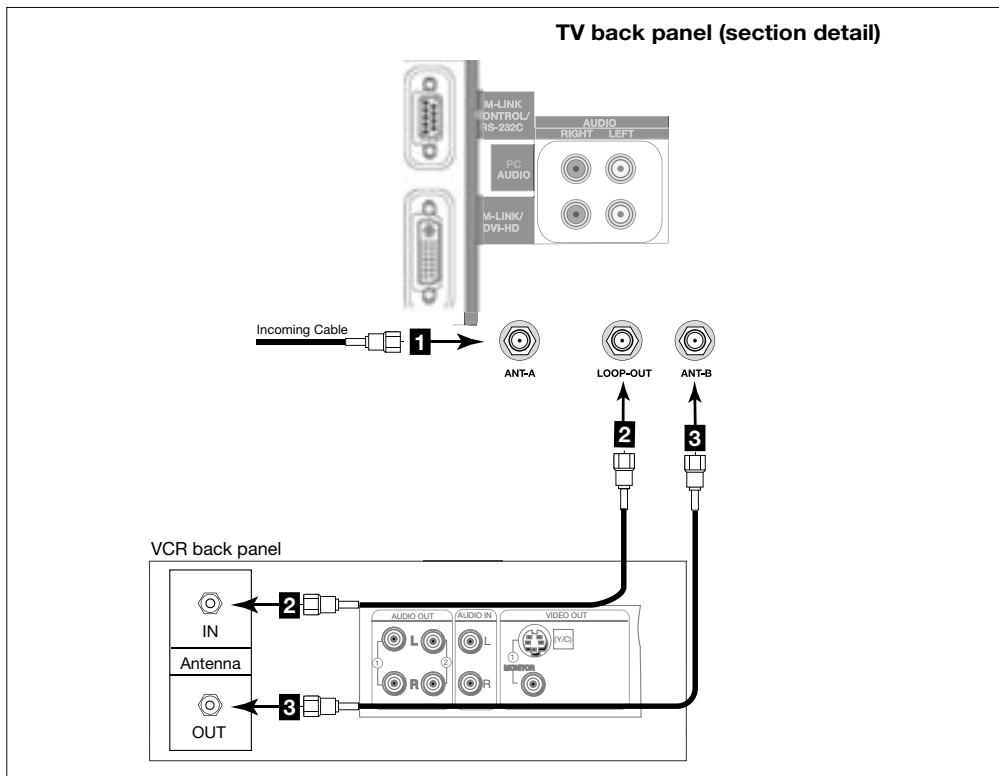


Figure 5. Connecting a VCR to Analog Antennas or Wall Outlet Cable

Connecting an Analog VCR to a Cable Box

Analog VCR to a Cable Box

Figure 6

1. Connect the incoming cable to ANT-A on the TV back panel.

Note: Connect three coaxial cables as follows:

2. One from LOOP-OUT on the TV back panel to IN on the back of the cable box.
 3. One from OUT on the back of the cable box to ANTENNA IN on the VCR back panel.
 4. One from ANTENNA OUT on the VCR back panel to ANT-B on the TV back panel.
5. Now complete *Connecting Composite Video or S-Video and Audio Connections* step 1 and 2 on page 28.

Note: NetCommand assumes that your VCR will be connected to inputs as shown on this and page 28. If you use any other inputs for your VCR or add a second VCR, this change must match in the NetCommand system. See "Editing NetCommand" in book 2 for more information.

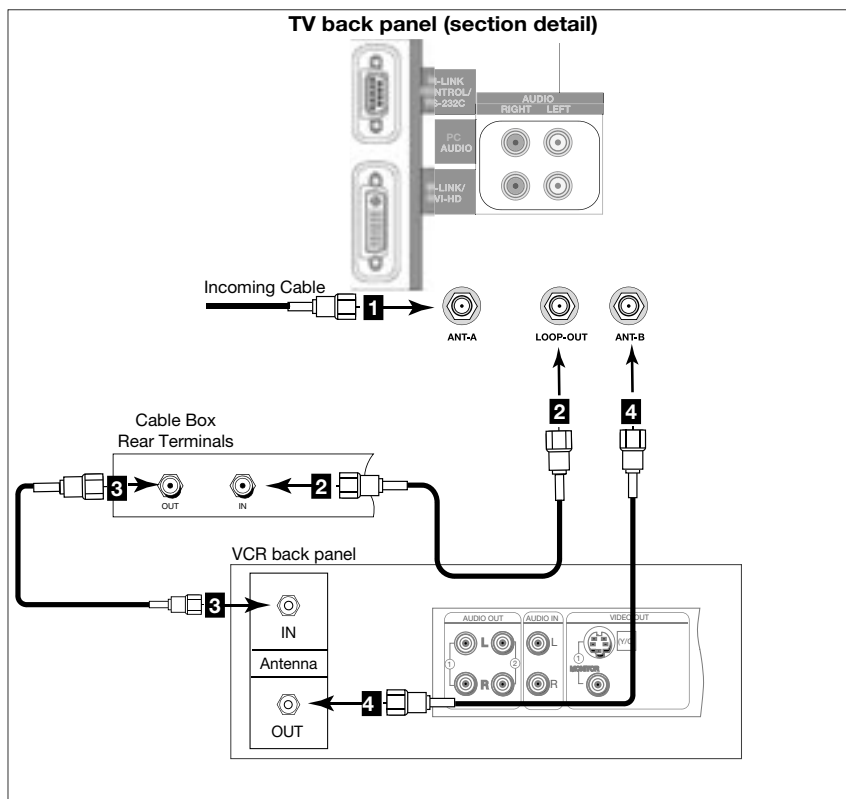


Figure 6. Connecting a VCR to a Cable Box

IMPORTANT

Some cable boxes send return signals to your cable company in order to continue to operate and may not be compatible with the Loop-Out connector. In this case, use an RF splitter approved by your cable company and connect one output to the TV ANT-A directly and the other to the cable box input. Connect the cable box output to the VCR and the VCR output to the TV ANT-B as shown.

Connecting an Analog VCR, continued

Analog VCR with Composite Video or S-Video with Audio Connections

Figure 7

1. Connect a video cable from VIDEO OUT on the VCR back panel to VIDEO INPUT 1 on the TV back panel.

Note: If you have an S-VHS VCR, follow the same steps using the S-Video terminals on the VCR and TV (in place of the composite terminals).

2. Connect a set of audio cables from AUDIO OUT on the VCR back panel to AUDIO INPUT 1 on the TV back panel. The red cable connects to the R (right) channel and the white cable connects to the L (left) channel. If your VCR is mono (non-stereo), connect only the white (left) cable.

Note: Step 2 allows the use of the TV speakers with the VCR.

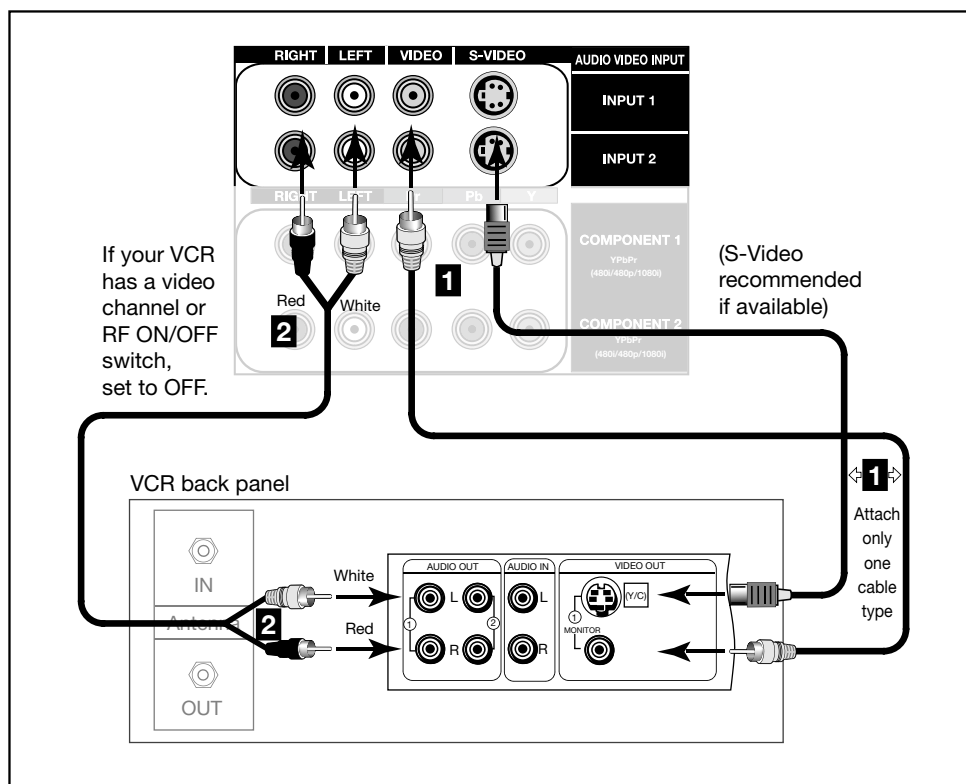


Figure 7. Adding composite Video or S-Video with Audio Connections

Connecting an Audio/Video Surround Sound Receiver or Stereo System

A/V Surround Sound Receiver or Stereo System

Figure 8

1. Connect a set of audio cables from the MONITOR OUTPUT AUDIO 2 on the back of the TV to the TV AUDIO INPUT on the back of the A/V Receiver. The red cable connects to the R (right) channel and the white cable connects to the L (left) channel.

When you connect a digital A/V Receiver with Dolby Digital™ surround sound:

2. Connect one end of the digital audio cable supplied with the TV to the DIGITAL AUDIO OUTPUT on the back of the TV (connect the end of the cable with the ferrite or plastic cylinder). Connect the other end to the COAXIAL DIGITAL INPUT on the back of the A/V Receiver. Check the Owner's Guide for the A/V Receiver for information concerning the use of the digital input and switching between the digital sound and analog stereo sound from the TV.

TV Recording outputs to VCR to record decoded digital signals (not pictured).

1. Connect a video cable from MONITOR OUTPUT AUDIO VIDEO 1 video connection on the back panel of the TV to the VIDEO IN connection on the back of the VCR.

Note: If you have an S-VHS VCR, follow the same steps using the S-Video terminals on the TV and VCR (in place of composite video terminals).

2. Connect a set of audio cables from MONITOR OUTPUT AUDIO VIDEO 1 audio connections on the back panel of the TV to the AUDIO IN connections on the back of the VCR. The red cable connects to the R (right) channel and the white cable connects to the L (left) channel.

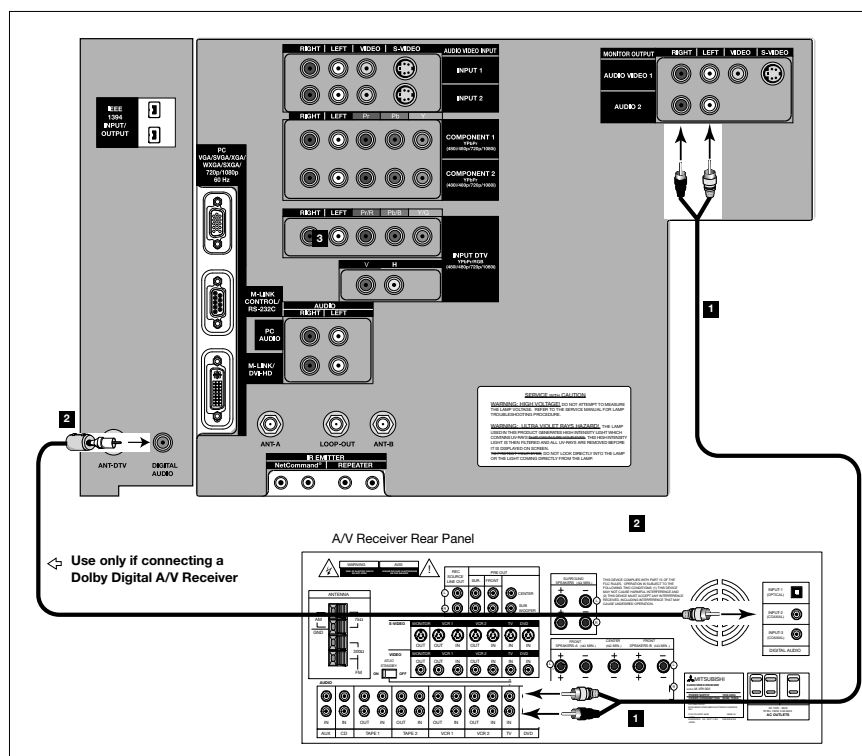


Figure 8. Connecting an A/V Receiver

Connecting a DVD Player with Component Video

DVD Player with Component Video

Figure 9

1. Connect the Component Video cables from Y/Pr/Pb VIDEO OUT on the back of the DVD player to COMPONENT-1 on the TV back panel, matching the correct connection:

- Y to Y
- Pr to Pr
- Pb to Pb

2. Connect a set of audio cables from AUDIO OUT on the back of the DVD player to COMPONENT-1 AUDIO Input on the TV back panel. The red cable connects to the R (right) channel, and the white cable connects to the L (left) channel.

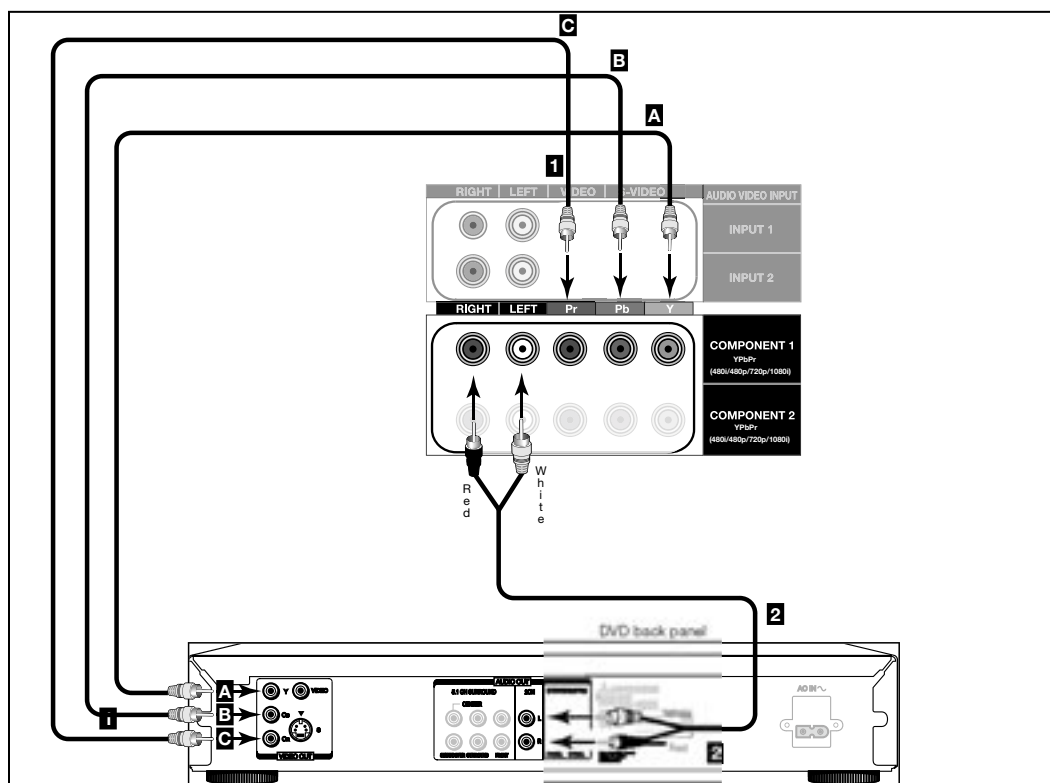


Figure 9. Connecting a DVD Player with Component Video

Note: NetCommand assumes that you connected your DVD to Component 1. If you add a second DVD or use any other inputs for your DVD, this change must match in the NetCommand system. See "Editing NetCommand" in book 2 for more information.

IMPORTANT

See Appendix B in book 2 for component video signal compatibility information.

For digital audio connections, see your A/V Receiver, DVD and Satellite Receiver Owner's Guides.

Connecting a Satellite Receiver with S-Video

Satellite Receiver with S-Video

Figure 10

1. Connect an S-Video cable from VIDEO OUT on the satellite receiver back panel to the S-VIDEO input of AUDIO VIDEO INPUT-2 on the TV back panel.
2. Connect a set of audio cables from AUDIO OUT on the satellite receiver back panel to the AUDIO INPUT-2, on the TV back panel. The red cable connects to the R (right) channel and the white cable connects to the L (left) channel.

Note: Refer to the Satellite Receiver Owner's Guide for Dish Antenna connections.

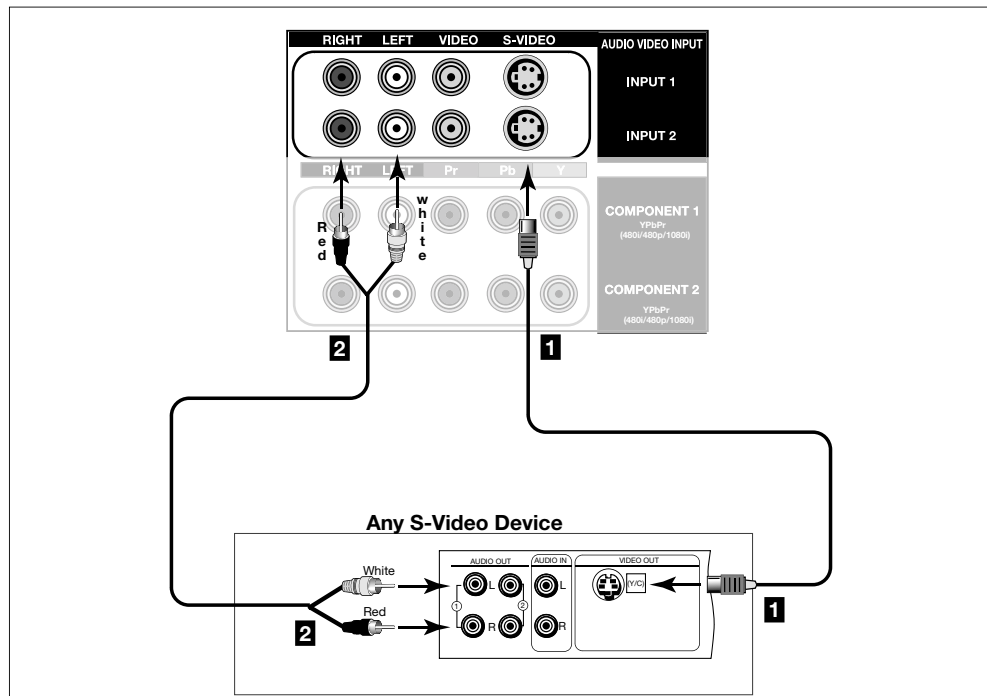


Figure 10. Connecting a Satellite Receiver with S-Video

Note: NetCommand assumes that you connected your Satellite Receiver to Input 2. If you add a second Satellite Receiver or use any other inputs for your Satellite Receiver, this change must match in the NetCommand system. See "Editing NetCommand" in book 2 for more information.

DTV Connectors and Adaptors

DTV Connectors and Adaptors

Figure 11

The TV back panel has 5 RCA-type connectors for the Input-DTV. The back panel of your external DTV receiver may use RCA-type connectors or BNC-type connectors. If your DTV receiver comes with BNC type connections, you will need to purchase BNC to RCA adaptors to connect the TV to the DTV receiver. These adaptors should be available at most electronic supply stores.

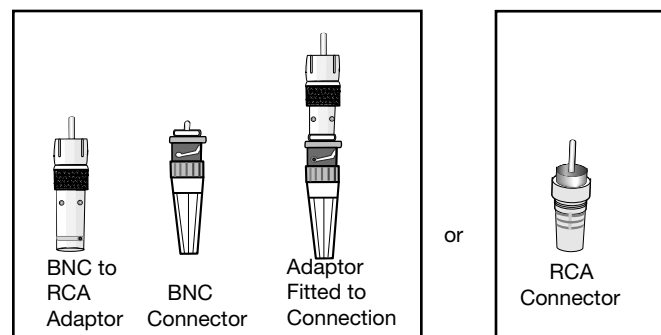


Figure 11. DTV Connectors and Adaptors

IMPORTANT

See Appendix B in book 2 for component video signal compatibility information.

For digital audio connections, see your DTV Receiver and A/V Receiver Owner's Guides.

Connecting an External Digital TV (DTV or HDTV) Receiver with Component Video Connections

External Digital TV (DTV or HDTV) Receiver with Component Video Connections

Figure 12

1. Connect the outside antenna, cable or satellite to ANT or SATELLITE IN on the DTV receiver (see your DTV receiver's owner's guide for instructions and cable compatibility).
2. Connect the incoming terrestrial antenna or cable (not satellite) to ANT-A on the TV back panel (a coaxial splitter, available at most electronic supply stores, may be required to complete this installation).
3. Connect RCA-type cables from the YPrPb outputs on the DTV receiver to Input-DTV on the TV back panel, matching the correct connections:

DTV Receiver to TV Back panel

- **Y** to Y
- **Pr** to Pr
- **Pb** to Pb

Note: You may need to set the Input-DTV assignment to YPrPb instead of RGB. Refer to Edit NetCommand® Setup in book 2 for instructions on changing this setting.

4. Connect the L (left) and R (right) audio cables from the DTV receiver to Input-DTV AUDIO on the TV back panel.

Note: To utilize the benefits of a digital A/V receiver, connect your DTV receiver's digital audio out to a digital input on your digital A/V receiver.

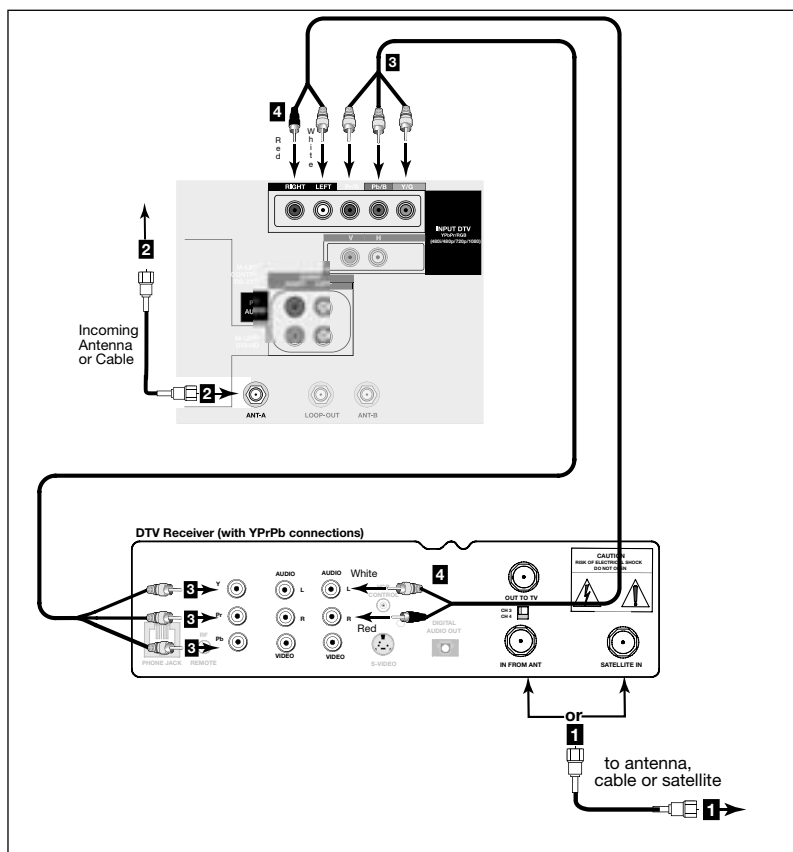


Figure 12. Connecting an External DTV Receiver with Component Video Connections

Connecting an External Digital TV (DTV or HDTV) Receiver with RGB, HV Video Connections

External Digital TV (DTV or HDTV) Receiver with RGB, HV Video Connections

Figure 13

1. Connect the outside antenna, cable or satellite to ANT or SATELLITE IN on the DTV receiver (see your DTV receiver owner's guide for instructions and cable compatibility).
2. Connect the incoming terrestrial antenna or cable (not satellite) to ANT-A on the TV back panel (a coaxial splitter, available at most electronic supply stores, may be required to complete this installation).
3. Connect RGB cables from the DTV receiver to Input-DTV on the TV back panel.

Note: You may need to set the Input-DTV assignment to RGB instead of YPrPb. Refer to the Edit NetCommand® Setup in book 2 for instructions on changing this setting.

DTV Receiver to TV Back Panel

- **G** (green) to Y/G
 - **R** (red) to Pr/R
 - **B** (blue) to Pb/B
4. Connect the H & V sync signals as shown below:
 - **H** (horizontal sync) to H
 - **V** (vertical sync) to V

All 5 cables (G,R,B,H and V) must be connected. 3 cables or Sync on green connections are incomplete and will not work.

5. Connect the L (left) and R (right) audio cables from the DTV receiver to Input-DTV AUDIO on the TV back panel.

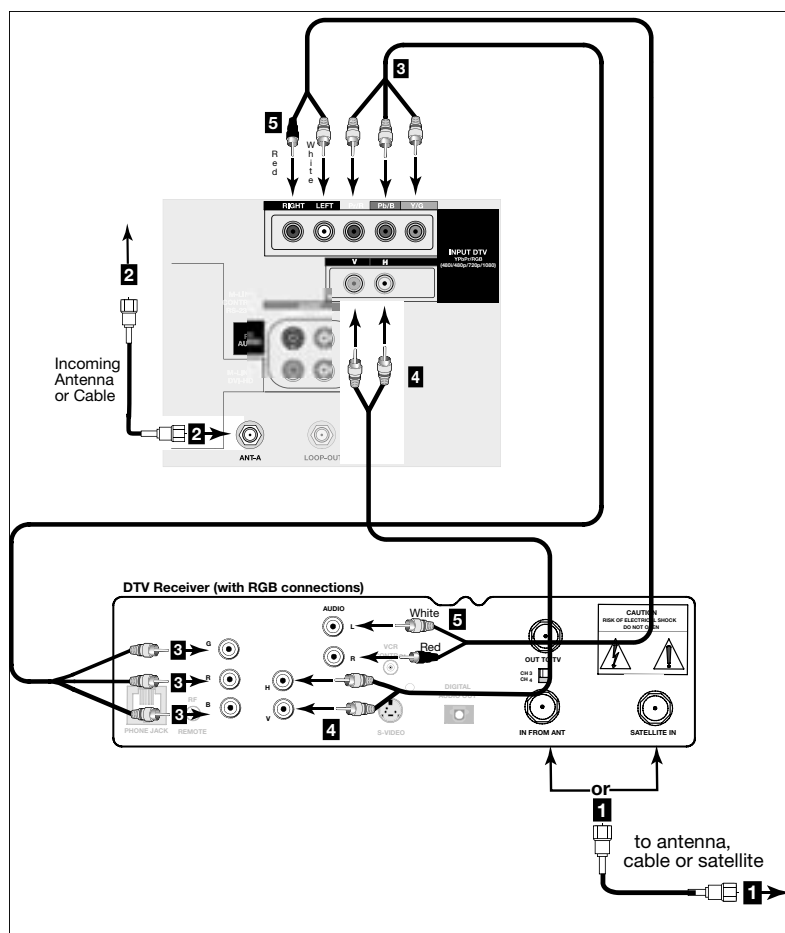


Figure 13. Connecting an External DTV Receiver with RGB Video Connections

Connecting MonitorLink™ with MonitorLink Control or DVI-HD

MonitorLink and MonitorLink Control

Figure 14

1. Connect a MonitorLink cable from the Mitsubishi Receiver/Controller back panel to the TV back panel.
2. Connect the L (left) and R (right) audio cables from the Mitsubishi Receiver/Controller to AUDIO LEFT and AUDIO RIGHT on the MonitorLink section of the TV back panel.
3. Connect the MonitorLink Control cable from the Mitsubishi Receiver/Controller back panel to the TV back panel.

External DVI Device with DVI-HD

Figure 14

1. Connect a DVI cable from the DVI output of the external DVI type device to the MonitorLink/DVI-HD input on the back of the TV.
2. Connect the L (left) and R (right) audio cables from the external DVI device to AUDIO LEFT and AUDIO RIGHT on the MonitorLink section of the TV back panel.

NOTE: When used as a DVI Input, the MonitorLink input is compliant with HDCP and the EIA-861 standards for standard, extended and high definition video; however, this input is not intended for use with personal computers or devices outputting video signals with computer resolution.

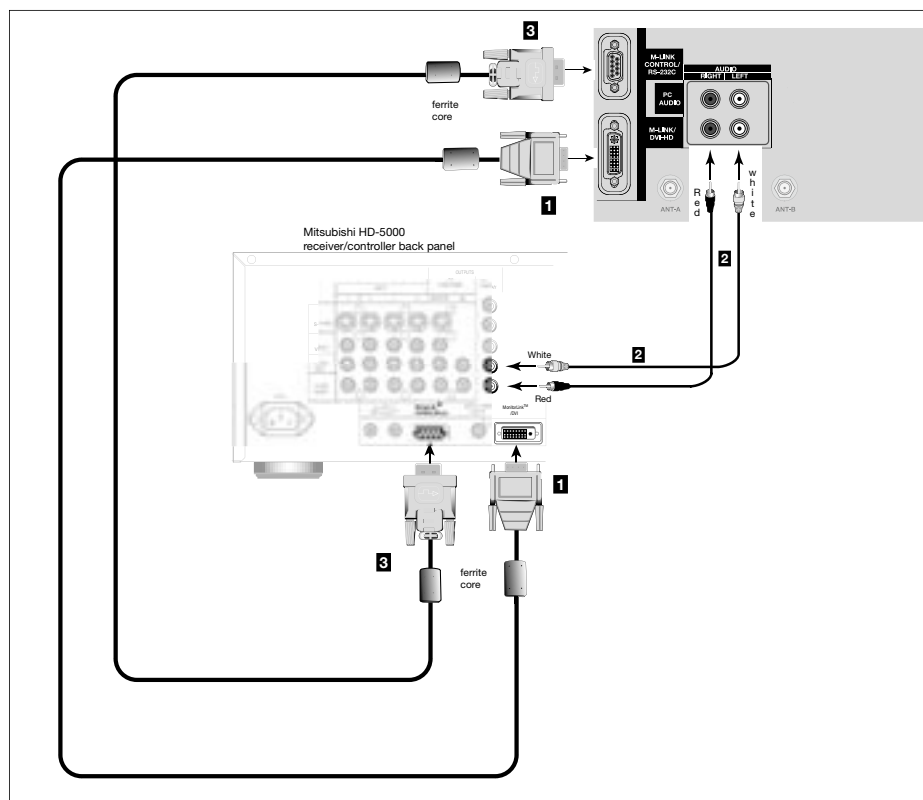


Figure 14. Connecting MonitorLink/DVI



CAUTION: To ensure continued FCC compliance, the user must use a shielded video interface cable with bonded ferrite cores when using the PC input, and with bonded ferrite cores at both ends when using the MonitorLink/DVI input.

Connecting a Computer with a PC Monitor Output

Computer with a PC Monitor Output

Figure 15

1. Connect PC Monitor Out from the computer to PC Input on the TV back panel using a PC compatible monitor cable. See Appendix B in book 2 for PC signal compatibility.
2. Connect the L (left) and R (right) audio cables from the computer to PC AUDIO on the TV back panel. In cases where your computer's audio output is a single mini-jack, a splitter is needed to complete this connection.

Note: To utilize the benefits of a digital A/V receiver, connect your computer's digital audio out, if available, to a digital input on your digital A/V receiver.

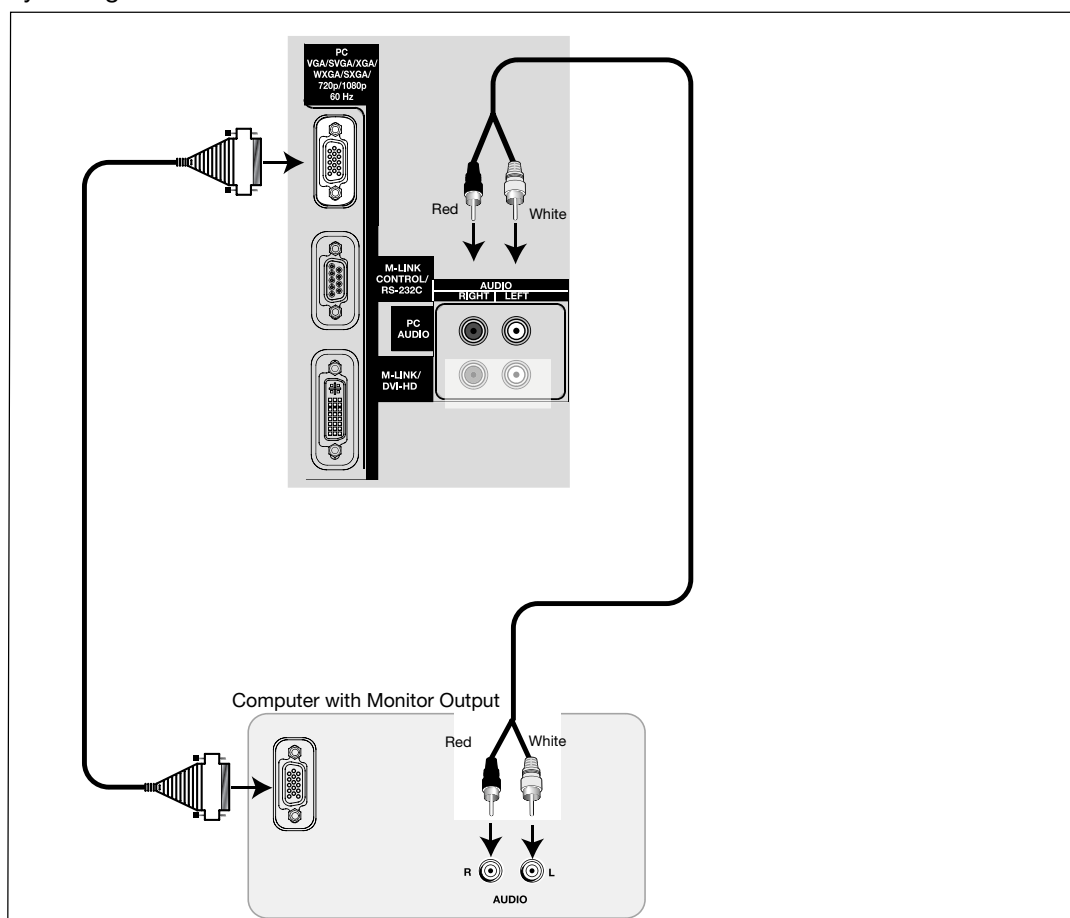


Figure 15. Connecting a Computer with a PC Monitor



CAUTION: To ensure continued FCC compliance, the user must use a shielded video interface cable with bonded ferrite cores when using the PC input, and with bonded ferrite cores at both ends when using the MonitorLink/DVI input.

Connecting the IR Emitter NetCommand® or IR Repeater

IR Emitter NetCommand® or IR Emitter Repeater

Figure 16

IR Emitter NetCommand

The emitters connected to these jacks are used by the NetCommand system to control other devices such as VCR, DVD players, Cable boxes and Satellite receivers.

- 1A. Connect the plug end of the supplied Quadruple IR Emitter Cable to one of the IR Output NetCommand jacks on the TV back panel.

OR ...

IR Emitter Repeater

The emitters connected to these jacks are not used by NetCommand, but will repeat any IR command received by the TV. These emitters allow the TV to be the remote control sensor for other devices outside the range of the hand-held remote control. Do not use these repeaters with devices that can receive the remote control signal directly, as the signals can interfere with each other.

- 1B. Connect the IR emitter to IR EMITTER-REPEATER on the TV back panel.

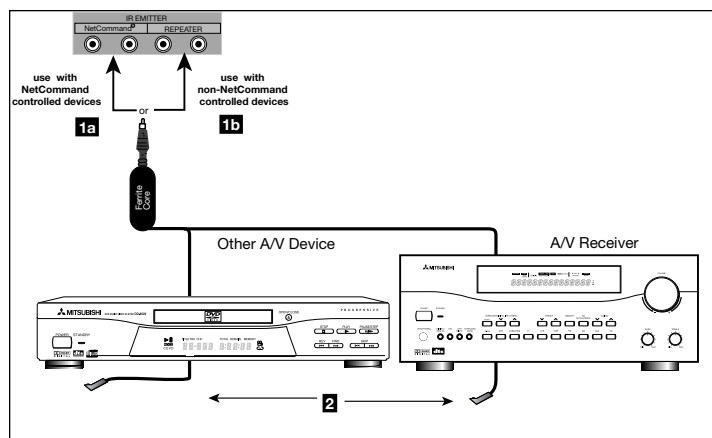


Figure 16. Connecting IR Emitter NetCommand or IR Emitter Repeater

After you have used 1A or 1B,

2. Run the cable for each of the emitter ends under, along side or over the top of each device to be controlled to the area of the front where the remote control sensor is located.
3. Place the emitter end in front of the remote control sensor of the device to be controlled. The emitter bulb should face the remote control sensor. This bulb emits infrared light in a cone shaped pattern. The bulb needs to be placed far enough from the remote control sensor to allow the cone pattern to include the sensor.

The remote control sensor is usually behind the plastic window of the front display panel. It is sometimes visible when you look through the display plastic using 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 using the device's remote control. Hold the remote about 1/2 inch from the front of the device. Starting from one end of the display window plastic, press the POWER button.

If the device does not respond, move the remote control 1 inch toward the center and try again. Repeat this until the device responds. Note this location then start over from the other end of the display window plastic, repeating until the device responds again. The remote control sensor will be somewhere between these two positions. This is usually enough accuracy for the placement of the IR emitters.

4. With some devices, the emitter will work better facing downward from the top of the device. Some experimentation may be needed. If you are not going to be using all emitter ends, place the unused ends behind the devices so that they cannot send signals to the remote control sensors.
5. The emitter end being used can be secured in place using double stick tape.

IMPORTANT

If a single emitter end can be placed in a position that will operate more than one device, do not use a separate emitter end for the additional device. A single device receiving remote control signals from too many emitters or remote controls may not respond at all.

Connecting: Helpful Hints

Q My VCR (or other device) does not have two sets of stereo audio outputs; how can I connect this device's audio to both the TV and the A/V Receiver?

A. There are two solutions:

1. Connect the single set of stereo audio outputs to the TV only. Use the Edit NetCommand® feature to "Change" the setup of this device. In the Connection screen part of "Change" make sure both audio and video for the TV input are check marked and neither the audio or the video for the AVR input are check marked. This will allow the NetCommand system to use the TV outputs to transfer the device's audio to the A/V Receiver. See Edit NetCommand Setup.
2. Use RCA type "Y" splitter cables to split the device's audio output to be connected to both the TV and the A/V Receiver.

Q. I have both the TV monitor stereo audio output and TV digital audio output connected to the same input designation on my A/V Receiver, how do I switch between analog audio and digital audio?

A. This depends on the individual A/V Receiver. Some A/V Receivers will switch automatically to digital when a digital audio signal is supplied so you do not need to do anything. Other A/V Receivers can be manually switched by remote control, for these types of A/V Receivers, see Book 2 for NetCommand information regarding this feature. Some A/V Receivers will require that you make this change on the front panel of the A/V Receiver.

Q. The front panel of my A/V Receiver is too tall or too convex for the IR emitter signal to reach the remote control sensor of the A/V Receiver. What can I do?

A. There are several possible solutions.

1. Mount the IR Emitter on the top, front edge of the A/V Receiver over the remote control sensor. Use tape to secure it in place.
2. Mount the IR Emitter on the underside of the shelf above the A/V Receiver (if the A/V Receiver is in a cabinet). Use double sided tape to secure it in place.
3. Some small stick-on emitters from other manufacturers may be compatible with the IR Emitter – NetCommand® jacks, these may be used instead of the supplied IR Emitters.

Q. I occasionally need to see the menu from my A/V Receiver, how can I connect it to the TV for this purpose?

A. You can connect the video output of the A/V Receiver to an unused input on the TV. Then use the Edit NetCommand to "Add" this as an "Other" device, not an A/V Receiver. On the "Connection", screen indicate which TV input was used and check mark the video box. Make sure the TV input audio box and both the audio and video boxes for the AVR input are not check marked. You should also name this device so you can easily identify it on the Device Selection Menu. Or use Input 3 (camcorder) on the front panel.

Q. I have a high definition receiver I would like to connect and it also has an S-video output I would like to use as well. Is there are way to connect this receiver both ways?

A. Yes, this item will appear twice in the Device Selection Menu. Just add this unit twice, once using the Inp-DTV and once using one of the S-video inputs. Make sure you indicate that this is the same manufacturer for both. We suggest that you connect stereo audio outputs with the S-video to the TV so that you do not need to use two inputs on the A/V Receiver. If this is a NetCommand compatible HDTV receiver with HD or SD outputs that can be switched by remote control. See book 2, page 64 Device Menu and book 2, page 79, Appendix E, for NetCommand control of this feature.

Appendix A: Cleaning and Service

Cleaning

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:

- 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 behind the Diamond Shield™:

- Follow the instructions for the top and sides, however, wipe 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 between the screen and the screen frame.
- You may purchase Mitsubishi Screen Cleaner, part number CLEANER-VSS, by calling (800) 553-7278.

IMPORTANT

DO NOT use any kind of abrasive or liquid cleaner on the surface of the TV screen or Diamond Shield.

Service

If you are unable to correct a problem with your TV, consult your Mitsubishi dealer or a Mitsubishi Authorized Warranty Service Center.

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

Menus not described and shown in the Owner's guide books are designed for Factory use and for Authorized Service Personnel. Damage caused to the TV by non-authorized changes or changes to these menus made by non-authorized persons are not covered under warranty.

Anti-Glare Diamond Shield™:

Anything abrasive can scratch the anti-glare coating of the Diamond Shield™ and household and window cleaners can remove the coating.

- Follow the instructions for cleaning top and sides, however, moisten the cloth with only water.
- Do not use any cleaning chemicals on the Diamond Shield™.
- DO NOT use Mitsubishi Screen Cleaner on the Anti-Glare Diamond Shield™

Cloth speaker grills:

- Lightly brush with a soft cloth brush, or lint brush.
- If necessary, you can vacuum using the brush and hose attachments of your vacuum cleaner. Do not use the beater brush section on the grill cloth.

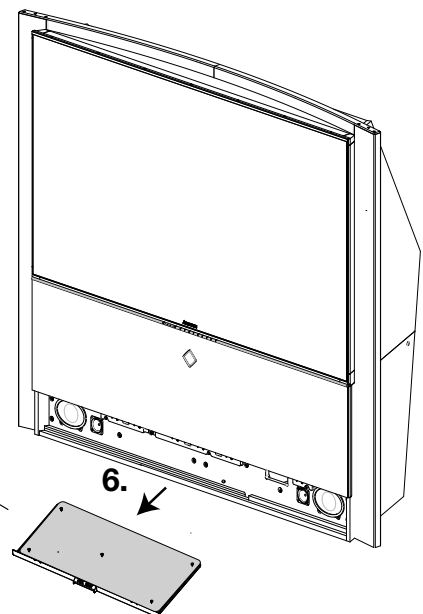
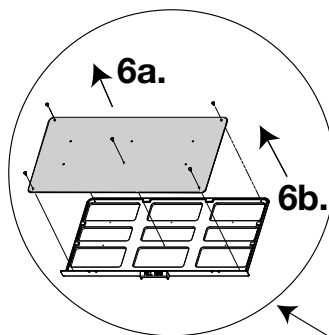
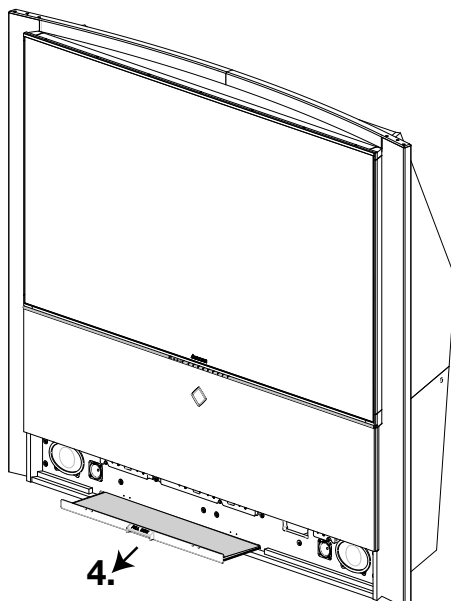
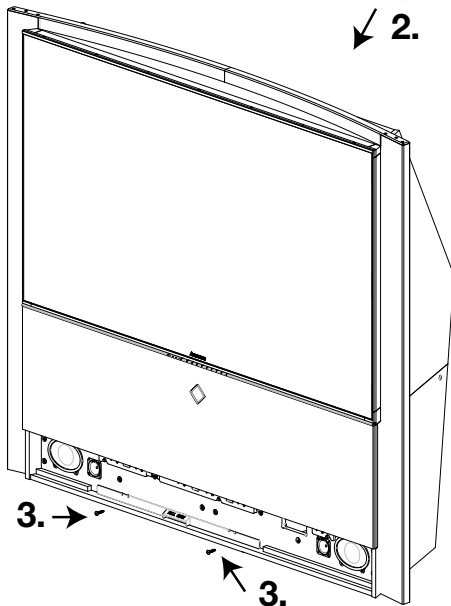
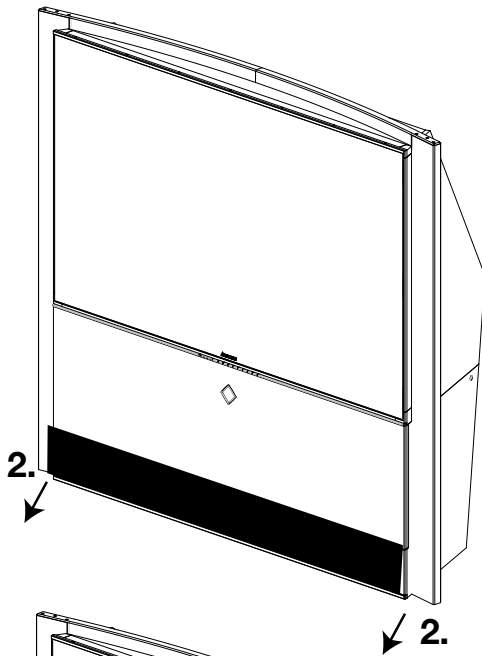
General Cleaning Warnings:

- 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 with ammonia, bleach, alcohol, benzene, or thinners as these can dull the surfaces.
- DO NOT spray liquids or cleaners directly on the TV's surfaces, apply to the cleaning cloth.
- DO NOT scrub or rub the TV harshly. Wipe it gently.

Appendix A: Cleaning the Dust Filter

Clean the filter annually and whenever you replace the lamp cartridge.

1. Turn the television off and unplug the AC cord.
2. Remove the cloth speaker grille by gently pulling out each side. Set the grille aside.
3. With a standard philips screwdriver, remove the two screws that hold the dust filter in place. These are located on each side of the tray handle (labeled PULL HERE).
4. Pull the filter tray out using the handle (labeled PULL HERE). The tray should slide out easily.
5. Clean the filter material by vacuuming with an appropriate dusting attachment.
6. If the filter is soiled, you can remove it from the tray,
 - a. remove the 5 plastic push pins that hold the filter, then
 - b. pull the filter out from the plastic tabs that hold it in place.The filter can be rinsed. Do not use detergents or soap when cleaning the filter.
7. Completely air dry the filter before placing it back into the tray. Carefully fit the filter under the plastic tabs and install the 5 plastic push pins.
8. Slide the dust tray securely into place.
9. Secure with the two screws.
10. Snap the speaker grille back into place by pressing on each side until it is secure.



Appendix B: Lamp Cartridge Replacement

Before you replace the lamp cartridge please note the following:

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

LAMP LIFE

The light source for the WL-82913 is a lamp. The actual life of the lamp in this television 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 shortens the lamp life, as does turning the television on and off frequently.

Mitsubishi warrants the lamp for one (1) year or 2,000 hours of operation, whichever occurs first. However, it is likely that the lamp will last significantly longer than this. When the lamp is close to 3,000 hours of use, the TV will display a warning message for one minute. The purpose of this message is to advise you that the lamp may fail soon. This warning message will continue to be displayed every time the TV is turned on, until the lamp is replaced and the Lamp Status elapsed time is reset.

At any time, you can confirm the lamp's elapsed hours of use by selecting Lamp Status from the Advanced Menu.

When you power on the TV, the message "Did you change the lamp? Press ENT(er) for Yes, press CANCEL for No" will appear. Press ENT(er) to reset the Lamp Status elapsed time.

To order a new lamp, please call (800) 553-7278.

WARNING:

Do not remove the lamp immediately after turning off the television. You may get burned because of the lamp's high temperature.

Do not remove the lamp, except when replacing. Careless treatment can result in injury or fire.

Do not touch the lamp element directly. It may break and cause you to have 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 any object is inserted into the opening unplug the AC cord of the TV and contact your dealer for service.

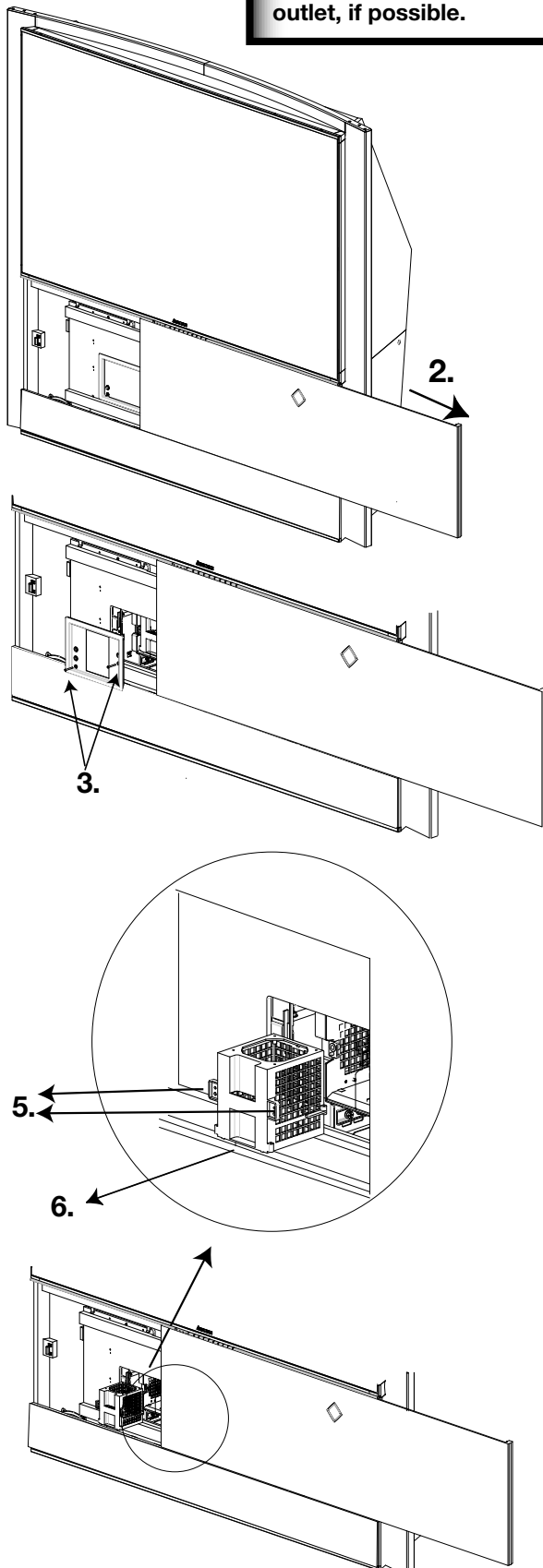
Install the lamp securely. Failure to do so may cause a fire.

The lamp in this product contains mercury. Disposal of mercury may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: www.eiae.org

Appendix B: Lamp Cartridge Replacement, continued

IMPORTANT

After powering off the TV, unplug the AC cord from the outlet, if possible.



Replacing the Lamp Cartridge

Whenever you replace the lamp cartridge also clean the filter.

1. Turn the television off and unplug the AC cord.
2. Carefully slide the glossy front panel to the right until it stops.
3. The lamp cartridge panel has a recessed plastic cover. Using a Phillips screwdriver, remove the three screws that hold this cover in place.
4. Remove the plastic cover and set aside with the screws.
5. After removing the cover, you will be able to see the lamp cartridge. Using a Phillips screwdriver, loosen the two screws on either side of the cartridge.
NOTE: The two screws will not remove completely.
6. Gently grasp the center of the lamp cartridge and pull straight out, towards you.
7. Insert the new lamp cartridge securely into the TV. Do not touch the glass surface of the cartridge.
8. Tighten the screws on the lamp cartridge.
9. Replace the plastic cover and screws.
10. Carefully slide the glossy front panel to the left to close the panel.
11. Plug the power cord into the outlet and press POWER to turn on the TV.
12. When you turn on the TV's power, the message "Did you change the lamp? Press ENT(er) for Yes, press CANCEL for No" will appear. On the remote control, press ENT(er) to reset the Lamp Status elapsed time (appears on the Advanced Menu screen).

CAUTION: The glossy front panel fits very securely. Be careful not to pinch your fingers when sliding it.

Using The System Reset Button

If the TV doesn't respond to either the remote control or the front panel controls or will not power off, press the SYSTEM RESET button on the front panel with a pointed item such as the point of a ball point pen 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 again. The changes you made while the TV was most recently on, before you used the SYSTEM RESET button may be lost, however, the changes you made previously are not lost. Only those changes since the last power On may be lost when the system reset button is pressed. All other settings are retained.

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MITSUBISHI LCoS PROJECTION TELEVISION LIMITED WARRANTY

MITSUBISHI DIGITAL ELECTRONICS AMERICA, INC. ("MDEA") warrants to the original purchaser of this television that if purchased from an authorized MITSUBISHI Audio/Video Dealer, should it prove defective by reason of improper workmanship and/or material:

a. Parts. The diffusion (i.e. front picture) screen and/or the Diamond Shield™ is warranted against defects in materials and workmanship for a period of 30 days. The UHP lamp is warranted for a period of one year from the date of purchase at retail or 2000 hours of use, whichever condition occurs first. All other parts (except any software incorporated into this television) are warranted for a period of one year from the date of the original purchase at retail. We will repair or replace, at our option, any defective part without charge for the part. Parts used for replacement may be replaced with those of like kind and quality and may be new or remanufactured. Parts used for replacement are warranted for the remainder of the original warranty period.

b. Embedded Software. MDEA warrants that all software incorporated into this television set (the "Embedded Software") will perform in accordance with the functional description of Embedded Software in all material respects, but MDEA does not warrant that the Embedded Software is error-free. MDEA also does not warrant that the Embedded Software will be compatible under IEEE 1394 AV/C and HAVi software standards with products produced by any other manufacturer. The warranty contained in this section shall continue for a period of one year. If, after prompt notice within the warranty period, MDEA determines that the Embedded Software has failed to perform in accordance with such functional description in all material respects and if such failure is not due to accident, misuse, modification or misapplication of the Embedded Software, then MDEA shall modify or replace the nonconforming Embedded Software at no charge to you, which at MDEA's sole discretion may be fulfilled by means of modification or replacement software contained on a replacement memory card for Customer installation. The foregoing shall be MDEA's sole obligation to you under this limited warranty. All rights under this limited warranty on the Embedded Software also subject to your compliance with the terms of the Software License Agreement applicable to this television, and this limited warranty on the Embedded Software shall be null and void if the Embedded Software is modified or changed in any manner except as specifically authorized by MDEA.

c. Labor. For 30 days after the original purchase at retail, we will repair or replace, at our option, the diffusion screen if it proves defective. For certain items that are designed to be replaced by the consumer, including (but not limited to) the Diamond Shield™ and/or some Embedded Software, the consumer is solely responsible for any replacement labor. The UHP lamp is consumer replaceable and labor for replacement is not covered under warranty, please refer to the Owner's Guide for replacement procedures. Air filter cleaning is normal consumer required maintenance and labor for this procedure is not covered under warranty, please refer to the Owner's Guide for air filter cleaning procedures. For all other parts, we will provide the labor for a warranty repair by an authorized MITSUBISHI service center without charge for one year from the original date of purchase at retail.

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 LCoS Projection Television uses a revolutionary technology, Liquid Crystal on Silicon, to create the screen image. This technology creates the image using small dots, or picture elements (pixels). Your LCoS Projection TV is manufactured to a high level of perfection, 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; the percentage of properly functioning pixels will be 99.99%.

1. TO OBTAIN WARRANTY SERVICE:

a. Contact your nearest authorized MITSUBISHI service center whose name and address can be obtained from your MITSUBISHI dealer or by writing or calling MDEA at the address and telephone number provided below.

b. Warranty service will be provided in your home or, if required, at an authorized service shop, provided that your television is located within the geographic territory customarily covered by an authorized MITSUBISHI service center. If not, you must either deliver your television to an authorized service location at your own expense, or pay for any travel and/or transportation costs the service center may charge to and from your home. Actual service labor will be provided without charge.

c. Proof of purchase date from an authorized MITSUBISHI dealer is required when requesting warranty service. Present your sales receipt or other document which establishes proof and date of purchase. THE RETURN OF THE OWNER REGISTRATION CARD IS NOT A CONDITION OF WARRANTY COVERAGE. 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 UHP lamp during the warranty period, please contact the MDEA Consumer Relations Department at (949) 830-8364. After the warranty period you may order the lamp directly from the MDEA Parts Department at (800) 553-7278.

2. THIS WARRANTY DOES NOT COVER:

a. Up to .01% pixel outages (small dot picture elements that are dark or incorrectly illuminated).

b. Damage to Diamond Shield, diffusion screen or Fresnel lens, screen frame, cosmetic damage or to any other product where such damage is caused by unauthorized modification, alteration, repairs to or service of the product by anyone other than an authorized MITSUBISHI service center; physical abuse to or misuse of the product (including any failure to carry out any maintenance as described in the Owner's Guide including air filter cleaning or any product damaged by excessive physical or electrical stress); any products that have had a serial number or any part thereof altered, defaced or removed; product use in any manner contrary to the Owner's Guide; freight damage; or any damage caused by acts of God or other factors beyond the reasonable control of MDEA, such as power surge damage caused by electrical system or lightning. This warranty also excludes service calls where no defect in the product covered under this warranty is found, service calls related to unsatisfactory audio or visual reception or signal unless caused a defect in the product that is covered under this warranty, all costs, expenses or any other damages arising from product installation, or set-ups, any adjustments of user controls (including convergence, contrast, brightness, color, tint, fine tuning, sharpness), other adjustment necessary to prepare the unit for display or use, connection with any external audio receiver, antenna, cable or satellite systems, or service of products purchased or serviced outside the U.S.A. Please consult the operating instructions contained in the Owner's Guide furnished with the product for information regarding user controls.

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MITSUBISHI TV SOFTWARE

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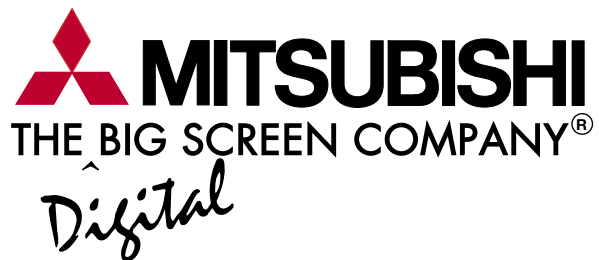
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