

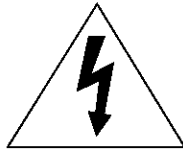
MITSUBISHI
THE BIG SCREEN COMPANY™
Digital

Owner's Guide

Digital Light Projection Television Model
WD-65000



Technically Anything is Possible™



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 to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of 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 bounded ferrite cores, when using the VGA 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 PRODUCT 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 SECTION 820-40 OF THE NEC WHICH PROVIDES GUIDELINES FOR 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.



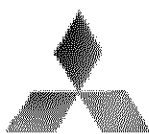
IMPORTANT SAFEGUARDS		4 - 5
T H A N K Y O U	Thank You Letter	8
	Unpacking Your New TV	9
	Special Features	9
I N S T A L L A T I O N	Front Control Panel Functions	12
	Back Panel Functions	13
	How Connections Affect :	
	PIP and POP	14
	Home Theater IR System	14 - 15
	Connecting to Your New Mitsubishi Bigscreen:	
	Antenna or Wall Outlet Cable	16
	Cable Box	16
	VCR	17
	Audio Receiver	18
	DVD Player or any S-Video Device	19
	DTV Receiver	20 - 21
	Computer	22
System 4 Home Theater IR Control	22	
S E T U P	Programming the Remote Control: To Control Other A/V Products	26 - 27
	Programming the Remote Control: To Activate the System 4 Home Theater IR Control	28 - 29
	Mitsubishi on-screen menu system	30
	Using Mitsubishi	30
	Menu Screens (Overview)	31 - 32
	Setup Menu	33 - 34
	Memorize Channels	33
	Assign Input	33
	Language	33
	Captions Menu	34
	Channel Menu	35
	V-Chip Lock	36 - 38
	Advanced Menu	39 - 40
	Timer	39
	Audio/Video Menu	41 - 42
Clock Menu	43	
A/V Setting Descriptions	44 - 45	
O P E R A T I O N	Remote Control Functions	48 - 55
	Overview	48
	Care and Operation	49
	Channel Selection	50
	Sleep Timer	50
	System 4 Home Theater IR Control	51
	Special Functions	52
	Operation of PIP and POP	52 - 53
	Display Formats	54 - 55
	Appendix A: Bypassing the V-Chip Lock	57
Appendix B: High Definition Inputs Connection Compatibility	59	
Appendix C: Remote Control Programing Codes	60	
Appendix D: Lamp Replacement	61 - 63	
Appendix E: Cleaning and Service	64 - 66	
Filter cleaning	64 - 65	
Appendix F: Troubleshooting	67 - 68	
Index	69 - 70	
Mitsubishi Projection TV Limited Warranty	71	

Trademark, Registered trademark

Digital Light Processing™ and DLP™ are trademarks of Texas Instruments.

IBM and VGA are trademarks or registered trademarks of International Business Machines Corporation.

Other brand or product names are trademarks or registered trademarks of their respective holders.



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

For your safety, this Projector is equipped with a three-wire grounding type plug having a third (grounding) pin. This plug will only fit into a grounded type outlet. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.

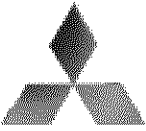
10. Power-Cord Protection

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 periods 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 Continued



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

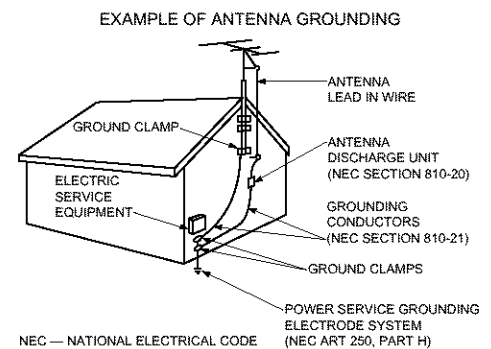
Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

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:

- (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.

21. Magnetic field

Objects producing a strong magnetic field, such as a magnet, speaker or motor, should not be placed on or near the TV.

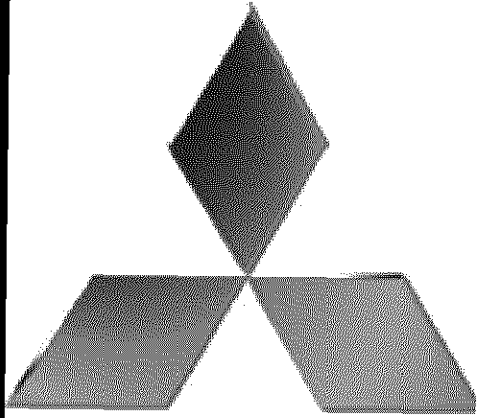
Consumer Relations
at (800) 332-2119, or email us at
MDEAservice@bigscreen.mea.com

To order replacement or additional remote controls or
owner's guides
call (800) 553-7278

or

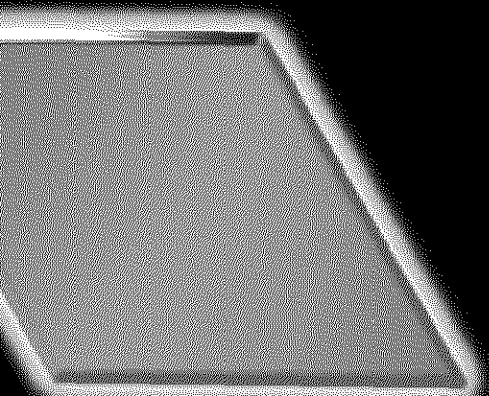
visit our website at www.mitsubishi-tv.com

Part I



Thank You

Thank You Letter	8
Unpacking Your New TV	9
Special Features	0





We at Mitsubishi Would Like to Thank You

To the Mitsubishi Consumer:

Thank you for choosing Mitsubishi as your premier home entertainment partner. Whether this is your first Mitsubishi consumer electronics product or an addition to your growing Mitsubishi family, you should be proud and delighted for choosing one of the most technologically advanced big-screens available today.

True high definition multimedia requires a large, precise display, the smart circuitry to drive it, and an assortment of inputs for a wide variety of sources. To that end Mitsubishi went a step beyond the Diamond Series™ and developed the WD-65000¹. We selected DLP™ Technology, one of the most significant advances in projection TV displays since the introduction of the CRT. DLP™ Technology has the impressive ability to display both television pictures and computer images with a level of detail, color, and clarity that has never before been offered for the home theater.

When you look at your new Mitsubishi bigscreen television, please see all of us who built it, because when we build it, we see you.

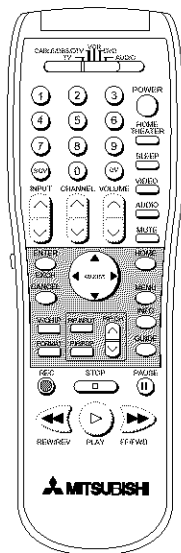
Thank You Again,
The Mitsubishi Team

1. With the addition of an HDTV digital receiver, all Mitsubishi HD-Upgradeables will offer uncompromising True HDTV™ high definition performance.

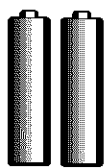
Unpacking Your New TV

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

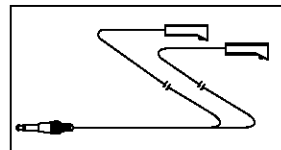
- 1 Remote Control
- 2 (2) AAA Batteries
- 3 (3) IR Emitter Cables
- 4 Power-Cord
- 5 Product Registration Card
- ➔ Owner's Guide
- ➔ Quick Reference Card



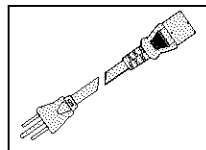
1 Remote Control



2 (2) AAA Batteries



3 (3) IR Emitter Cables



4 Power-Cord



5 Product Registration Card

Special Features

Your new HD Upgradeable bigscreen television has many special features that make it the perfect addition to your home entertainment system. Below we have highlighted a handful.

DLP™ Technology

DLP™ Technology has the impressive ability to display both television pictures and computer images with a level of detail, color, and clarity that has never before been offered for the home theater. The advanced circuitry has the ability to accept:

- **Conventional video (480i)**
- **Progressive scan video (480p)**
- **Both 1080i and 720p HDTV images**
- **VGA, S-VGA, and XGA computer graphics**

HD Upgradeable

With the use of an optional DTV receiver like the Mitsubishi SR-HD500 or similar model, your Mitsubishi bigscreen can display high definition pictures.

See pages 20 - 21.

Wide Screen Picture Format

You will be able to view pictures as the directors intended you to see them. Both DTV and DVD's supporting the widescreen format will enable you to enjoy a theater feel in the comfort of your home.

See pages 54 - 55.

PIP/POP Viewing Option

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

See pages 52 - 53.

V-Chip Technology

Mitsubishi understands that you may want to shield certain viewers from specific program content. Your Mitsubishi bigscreen will allow you to restrict programming by general contents, specific contents, or even by time.

See pages 36 - 38.

Multibrand Remote Control

Your Mitsubishi remote control can be programmed to control many other audio/video components.

See page 26 - 29.



T rue high definition multimedia requires a large, precise display, the smart circuitry to drive it, and an assortment of inputs for a wide variety of sources. To that end Mitsubishi went a step beyond the Diamond Series™ and developed the WD-65000¹. We selected DLP™ Technology, one of the most significant advances in projection TV displays since the introduction of the CRT. DLP™ Technology has the impressive ability to display both television pictures and computer images with a level of detail, color, and clarity that has never before been offered for the home theater.

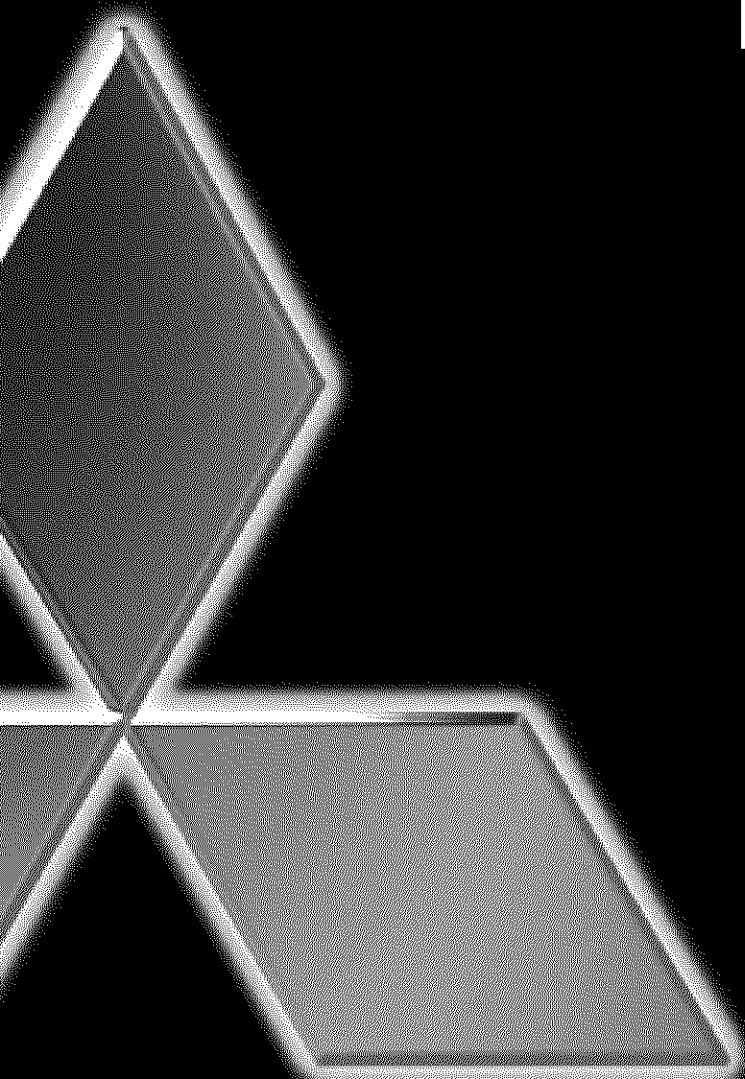
¹With the addition of an HDTV digital receiver, all Mitsubishi HD-Upgradeables will

Part II



Installation

Front Control Panel Functions	12
Back Panel Functions	13
How Connections Affect:	
PIP and POP	14
System 4 Home Theater	
IR Control	14 - 15
Connecting to Your New Mitsubishi	
Bigscreen:	
Antenna or Wall Outlet Cable	16
Cable Box	16
VCR	17
Audio Receiver	18
DVD Player	19
S-Video Device	19
DTV Receiver	20 - 21
Computer	22
System 4 Home Theater	
IR Control	22





Front Control Panel

Many remote control buttons are duplicated on the front control panel. These buttons are shaded in figure 1. Please see Remote Control Functions, pages 48 - 55, for an explanation of their usage.

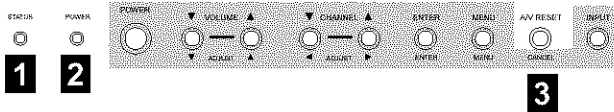


Figure 1. Front Control Panel

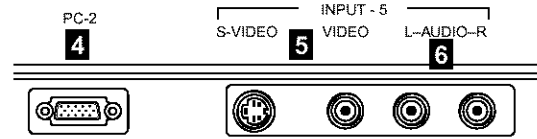


Figure 2. Located under Control Panel Overhang

1 Status indicator

This indicator informs of the status of the projection TV. See below.

2 Power indicator

This indicator informs of the power condition of the projection TV. See below.

Under normal operation

STATUS	POWER	CONDITION	NOTES
● Off	● Off	Off	
● Off	☀ Steady red	Initialization when first plugging in your TV, or lamp cooling (10 - 45 seconds)	
● Off	☀ Steady yellow	Lamp start-up (for 30 seconds)	
● Off	☀ Steady green	The POWER is ON	TV will turn on in 10 - 30seconds.
● Off	●☀ Blinking green	Stand-by (When the TV is set to turn on at a specific time.)	

Abnormal operation notice

STATUS	POWER	CONDITION	POSSIBLE SOLUTIONS
☀☀ Blinking yellow/red	● Off	Unusual temperature <ul style="list-style-type: none"> The air-filter is dirty. The room temperature is too high. 	<ul style="list-style-type: none"> Clean the filter. (See page 64). Relocate the projector to a cooler place.
☀ Steady yellow	Any state	Lamp usage warning. (Usage total about 4, 000 hours.)	<ul style="list-style-type: none"> Replace the lamp. (See page 61.)
☀☀ Blinking red/green	● Off	Lamp failure	<ul style="list-style-type: none"> Wait 1 minute, then press the POWER button. If the above operation is not effective, replace the lamp.
☀☀ Blinking yellow/green	● Off	Lamp cover or filter cover is open.	<ul style="list-style-type: none"> Close the cover correctly.
●☀ Blinking red	● Off	Service required.	<ul style="list-style-type: none"> Contact your dealer.

3 A/V Reset

Press this button to reset the A/V memory on all inputs to the factory default settings. Please see *A/V Memory Reset*, page 41, for instructions.

4 PC-2

This input can be used for the convenient connection of a compatible computer. Please see *Appendix B*, page 59, for signal compatibility.

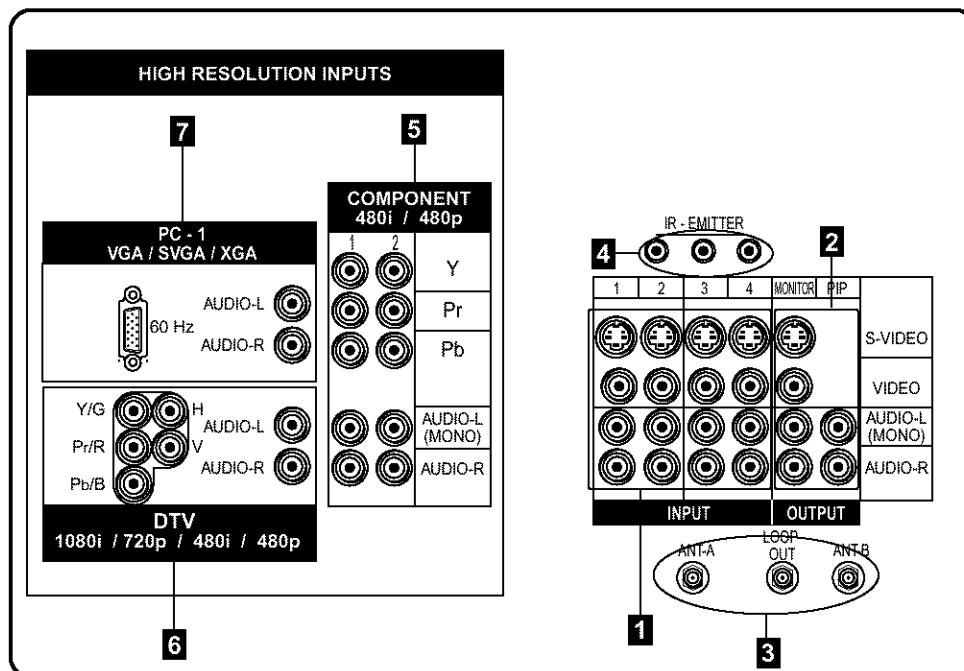
5 Input 5 (S-VIDEO / VIDEO)

This input can be used for convenient connection of a camcorder or other video device. Please note that if you connect to the S-VIDEO terminal, the VIDEO terminal is deactivated.

6 L - AUDIO - R

Audio input to the AUDIO IN terminal on the front panel is possible for a component connected to either PC-2 or Input 5.

Back Panel



1 Inputs 1-4

These inputs can be used for the connection of a VCR, Super VHS (S-VHS) VCR, laser disc player, 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.

2 Output (Monitor and PIP)

The Monitor Output sends the TV audio and video signals, excluding component video, PC, or DTV video, to an A/V receiver or other equipment. The PIP output sends the PIP's or POP's audio signal to an amplifier or wireless headphones. If no PIP or POP is displayed, the PIP output will send the main picture audio signal.

3 Antenna (ANT-A, LOOP OUT, and ANT-B)

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

4 IR-Emitter (System 4 Home Theater IR Control)

Connecting an IR emitters here allow the TV to automatically change a digital A/V receiver's input in a home theater setup, and pass IR commands to other A/V devices.

5 Component Inputs 1-2

These inputs can be used for the connection of A/V equipment with component video devices, such as a DVD player. Please see *Appendix B*, page 59, for signal compatibility.

6 DTV Input

This input is used to connect a DTV receiver, and can be configured for HDTV component video (Y/Pb/Pr), RGB Sync on green, or RGB plus H&V. Please see *Appendix B*, page 59, for signal compatibility.

7 PC-1

This input can be used for the connection of a computer. Please see *Appendix B*, page 59, for signal compatibility.

How Connections Affect the PIP and POP

To see a picture in the PIP or POP inset, you may need to select an input source. If the only input connected is ANT-A, then both the main picture and the PIP/POP inset will be from that input source. If other video equipment is connected, you may be able to view these input sources as the PIP/POP insert. When connecting your new Mitsubishi bigscreen, it is important to understand which main picture and PIP/POP input sources can and cannot be used together. Table 1 shows which inputs can and cannot be used together and the limitations they may require. To see if 480i, DTV 480p, 720p, 1080i, Component-1 or Component-2 480p is being displayed as the main picture, press INFO on the TV remote control. The on-screen display, figure 1, will list 480i, 480p, 720p, or 1080i when those signals are being received. See *Operation of PIP and POP*, pages 52 - 53, for operating instructions.

An asterisk (*) displayed after the signal type indicates that the signal being received is a non-standard format. A non-standard format signal may or may not display properly in a PIP/POP inset. Whenever the DTV input receiving a non-standard 1080i signal such as Sharp box, an asterisk (*) displayed after the signal type.

How Connections Affect the System 4 Home Theater IR Control

The Mitsubishi System 4 Home Theater IR System Control is a special feature that makes it easier to use your TV with a digital surround sound A/V receiver. Once your equipment is properly connected and set up, your TV and digital A/V receiver will change inputs together, to match high resolution pictures with the proper surround sound.

When you change inputs on your TV to watch different video products, your TV will send signals via your remote control to the infrared

PIP/POP MAIN	ANT-A	ANT-B	INPUTS 1-5	COMPONENT INPUTS 1-2	DTV
ANT-A	OK*	NO PIP/POP	OK	OK	OK
ANT-B	OK	OK*	OK	OK	OK
INPUTS 1-5	OK	OK	OK**	OK	OK
COMPONENT INPUTS 1-2	OK	OK	OK	OK**	OK
DTV	OK	OK	OK	OK	OK**
PC-1 / PC-2	NO PIP				

Table 1. *No Side-by-Side with the same channel.
**No Side-by-Side with the same input.
PIP cannot display PC.

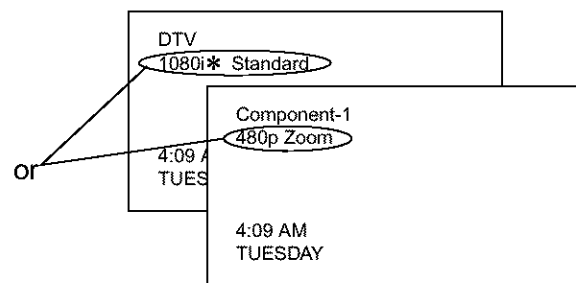


Figure 1. On-screen display will show 480i, 480p, 720p, or 1080i when those signals are being received.

emitters to your digital A/V receiver to change inputs. You will automatically hear the high quality digital surround sound from digital products like your DTV receiver and DVD player, and high quality analog stereo or surround sound from non-digital products like your VCR.

Additionally, all IR remote signals from your Mitsubishi remote or other manufacturers remote will be passed through your TV to your A/V devices. Your A/V devices can be hidden or behind cabinet doors and controlled by pointing the remote at the TV.

Special Setups:A/V Equipment (For System 4 Home Theater IR Control)

VCR: Connect the cables to the TV as directed on page 17, with one exception. Connect the audio output connection to the appropriate input on the back of the A/V receiver (as shown in table 1).

DVD: Connect the cables as directed on page 19 (using the COMPONENT-1 input), with one exception. Connect the digital audio output connection on the DVD player to the appropriate digital input on the back of the digital A/V receiver (as shown in table 1).

DTV: Connect the cables as directed on pages 20 - 21, with one exception. Connect the digital audio output connection on the DTV receiver to the appropriate digital input on the back of the digital A/V receiver (as shown in table 1).

A/V Receiver: Connect as directed on page 18, with two additions. Use a S-Video cable in step 1 if you have a S-Video VCR. The TV outputs should be connected to the A/V receiver's input marked TV.

- **Auto Standby:** ON (See your A/V receiver's Owner's Guide for this procedure). For all TV use, the sound will come from the A/V receiver. Not available with all A/V receivers.
- **Digital Input Assignment for DVD:** Assign the digital input you used for your DVD player to the A/V receiver's DVD input selector. This procedure is explained in your A/V receiver's Owner's Guide.

- **Digital Input Assignment for DTV:** Assign the digital input you used for DTV to the A/V receiver's DTV input selector. This procedure is explained in your A/V receiver's Owner's Guide.

Infrared Emitter: Connect as shown on page 22.

Special Setups:TV

Menu selection for A/V connections, page 42.

- **TV Speakers:** OFF
- **Audio Output:** Fixed
- **TV Inputs Appropriately Named :** See *Assign Input Menu*, page 33.

Remote Control, pages 26 - 27.

- Set the slide switch to the TV position and follow the programming instructions using the A/V receiver code appropriate for your A/V receiver, page 27 (figure 5).

Brand	Model	The products listed at the top of this column connect to the below listed inputs on the back of the appropriate A/V receiver.			
		TV / Cable	SAT/DBS/DTV	VCR	DVD
Mitsubishi	M-VR1000 / M-VR800	TV	VCR2	VCR1	DVD
Mitsubishi	M-VR900 / M-VR700	TV	CABLE/DBS	VCR	DVD
Denon	AVR2800	TV/DBS	VCR2	VCR1	DVD/LD
JVC	RX-888V	TV	VIDEO 2	VCR 1	DVD
Kenwood	VR-2080	AV AUX	LD	VIDEO 1	DVD
Onkyo	TX-DS575	VIDEO 3	VIDEO 2	VIDEO 1	DVD
Pioneer	VSX-21	TV/SAT	VIDEO 2	VCR 1	DVD/LD
Sony	STR-DE825	TV/DBS	VIDEO 2	VIDEO 1	DVD/LD
Yamaha	RX-V2095	TV/DBS	VCR 2	VCR1	DVD/LD

Table 1. A/V receiver back panel input table



Connecting an Antenna, Wall Outlet Cable, or Cable Box

Separate UHF and VHF Antennas

(Figure 1)

- ➊ Connect the UHF and VHF antenna leads to the UHF/VHF combiner.
- ➋ Push the combiner onto ANT-A on the TV back panel.
- ➌ UHF/VHF combiners are not provided with the TV. They should be available at most electronic stores.

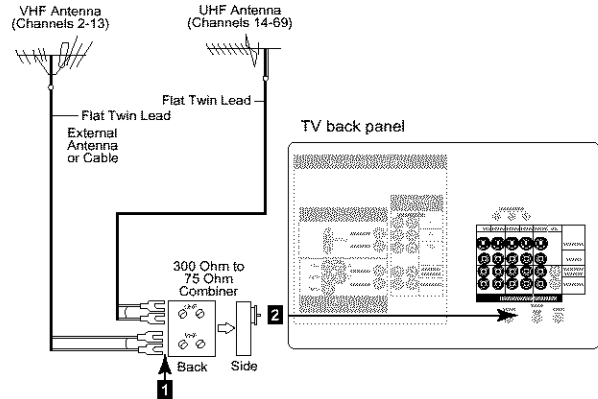


Figure 1. Connecting separate UHF and VHF antennas.

Twin Lead Antenna, Coaxial Lead Antenna, or Wall Outlet Cable

For antenna with twin flat leads (Figure 2)

- ➊ Connect the 300 ohm twin leads to the transformer.
- ➋ Push the 75 ohm side of the transformer onto ANT-A on the TV back panel.
- ➌ 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 (Figure 2)

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

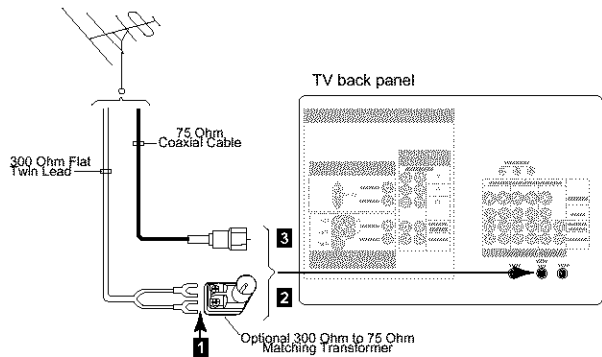


Figure 2. Connecting twin lead antenna, coaxial lead antenna, or wall outlet cable.

IMPORTANT

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

Cable Box

(Figure 3)

- ➊ Connect the incoming cable to ANT-A on the TV back panel.
- ➋ Connect two coaxial cables as follows:
- ➌ One from LOOP-OUT on the TV back panel to IN on the cable box back panel.
- ➍ One from OUT on the cable box back panel to ANT-B on the TV back panel.

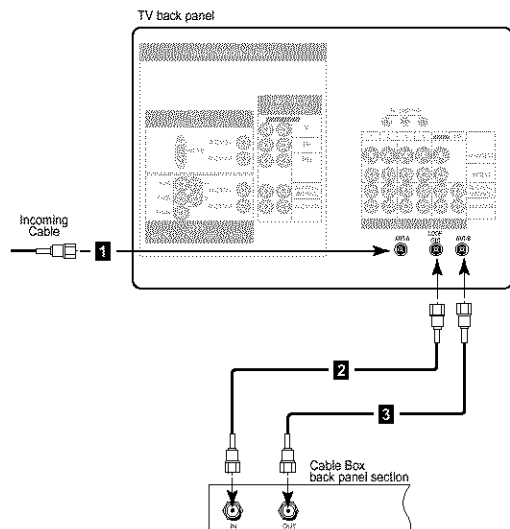


Figure 3. Connecting the cable box.

Connecting a VCR

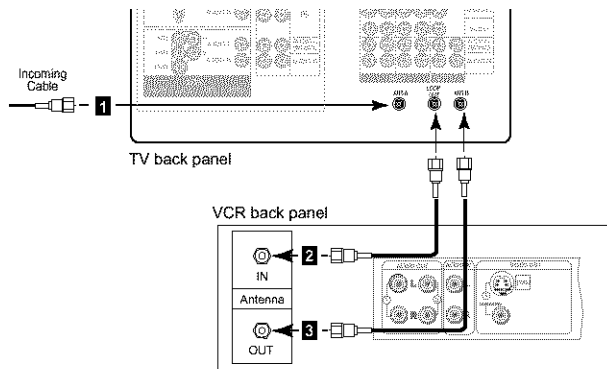


Figure 1. Connecting VCR with antennas or wall outlet cable.

IMPORTANT

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

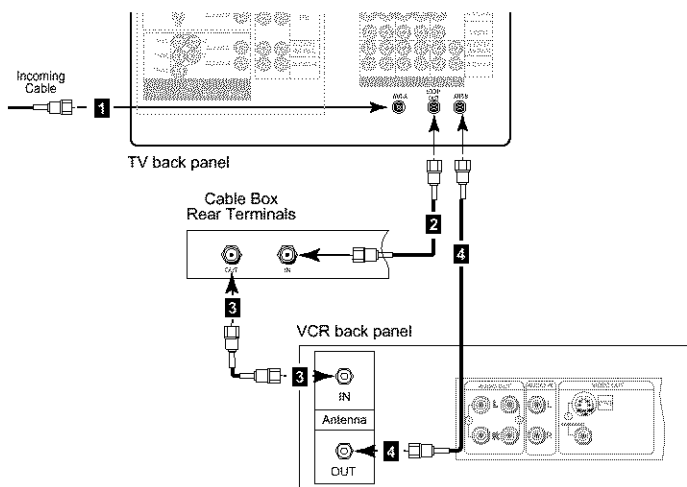


Figure 2. Connecting VCR with cable box.

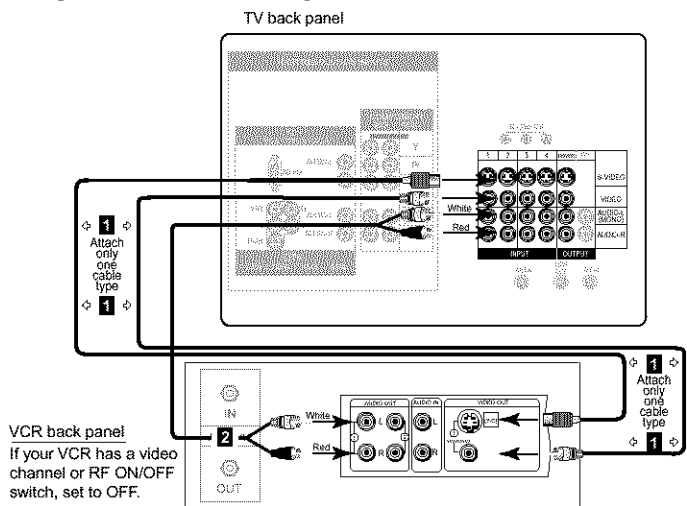


Figure 3. Connecting the VCR Audio/Video.

Antennas or Wall Outlet Cable

(Figure 1)

- 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 figure 3, step 1 - 2.

Cable Box

(Figure 2)

- 1 Connect the incoming cable to ANT-A on the TV back panel.
- ➔ 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 figure 3, step 1 - 2.

Composite Video with Audio or S-Video with Audio

(Figure 3)

- 1 Connect a video cable from VIDEO OUT on the VCR back panel to VIDEO INPUT-1, INPUT-2, INPUT-3, or INPUT-4 on the TV back panel or INPUT-5 on the TV front panel.
 - ➔ If you have a 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, INPUT-2, INPUT-3, or INPUT-4 on the TV back panel or INPUT-5 on the TV front 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.

Connecting an Audio Receiver

Stereo Audio System

(Figure 1)

- 1 Connect the audio cables from AUDIO MONITOR OUTPUT on the TV back panel to TV IN or AUX IN terminals on the back of the audio system. The red cable connects to the R (right) channel, and the white cable connects to the L (left) channel.
- 2 Turn off the TV's speakers through the *Audio/Video Menu*, page 42.
- 3 Set the audio system's input to the TV or AUX position to hear the TV's audio through your stereo system.

IMPORTANT

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

AV Receiver

(Figure 2)

- 1 Connect a video cable or S-Video cable from VIDEO MONITOR OUT on the back of the A/V receiver to VIDEO INPUT-1 on the TV back panel.
- 2 Connect a video cable from VIDEO MONITOR OUTPUT on the TV back panel to VIDEO TV IN on the back of the A/V receiver.
- 3 Connect a set of audio cables from AUDIO MONITOR OUTPUT on the TV back panel to AUDIO TV IN 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.

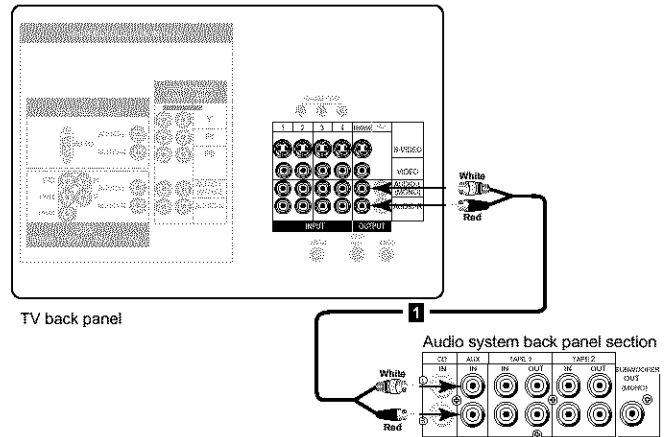


Figure 1. Connecting the Stereo Audio System

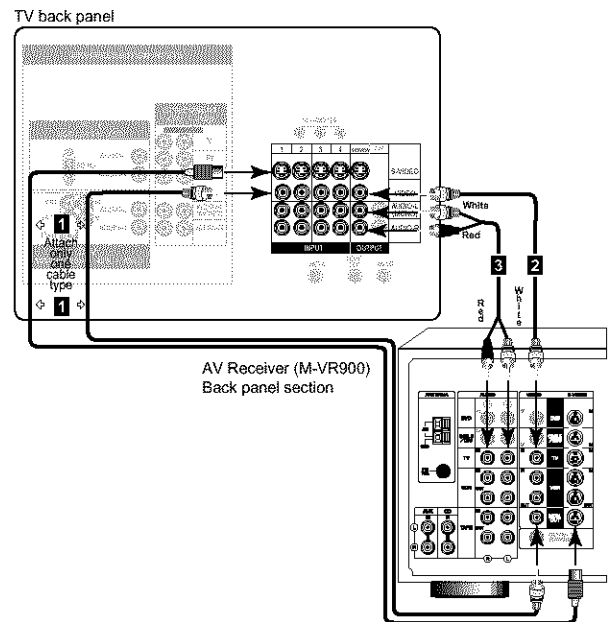


Figure 2. Connecting the A/V Receiver.

IMPORTANT

→ Please see your AV receiver Owner's Guide for more detailed connections.

Connecting a DVD Player

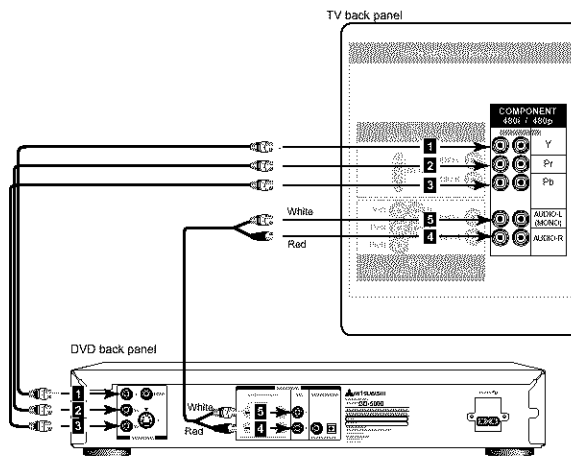


Figure 1. Connecting the DVD player.

IMPORTANT

- See Appendix B, page 59, for component video signal compatibility information.
- For digital audio connections, see your DVD and A/V receiver Owner's Guides.

DVD Player with Component Video

(Figure 1)

- ➔ Connect the Component Video cables from Y/Cr/Cb or Y/Pr/Pb VIDEO OUT on the back of the DVD player to COMPONENT-1 or COMPONENT-2 on the TV back panel, matching the correct components:
 - 1 Y to Y
 - 2 Cr or Pr to Pr
 - 3 Cb or Pb to Pb
- ➔ Connect a set of audio cables from AUDIO OUT on the back of the DVD player to COMPONENT AUDIO Input 1 or 2 on the TV back panel. The red cable 4 connects to the R (right) channel, and the white cable 5 connects to the L (left) channel.
- ➔ If you have progressive DVD player, connect the cables with same connection.

Connecting an S-Video Device

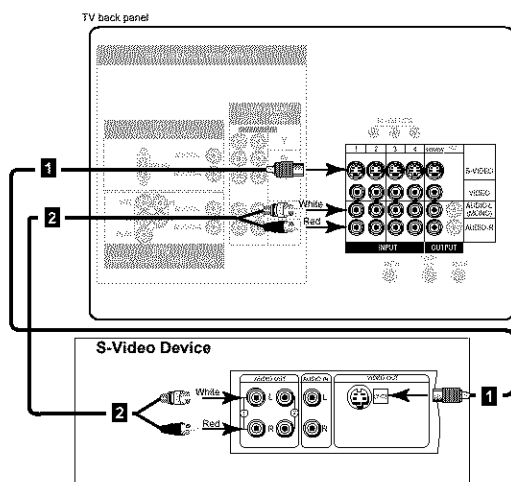


Figure 2. Connecting an S-Video Device.

S-Video Device

(Figure 2)

- 1 Connect an S-Video cable from VIDEO OUT on the device back panel to VIDEO INPUT-1, INPUT-2, INPUT-3, or INPUT-4 on the TV back panel or INPUT-5 on the TV front panel.
- 2 Connect a set of audio cables from AUDIO OUT on the device back panel to AUDIO INPUT-1, INPUT-2, INPUT-3 or INPUT-4 on the TV back panel or INPUT-5 on the TV front panel. The red cable connects to the R (right) channel and the white cable connects to the L (left) channel. If your device is mono (non-stereo), connect only the white (left) cable.

Connecting a DTV Receiver

DTV Connections and Adaptors

(Figure 1)

The TV back panel has 5 RCA-type connectors, for the DTV connection. The back panel of your 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.

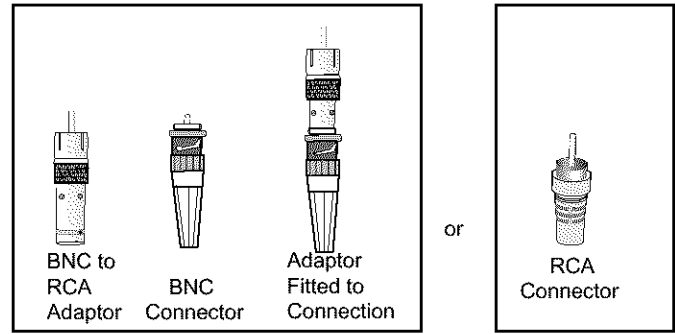


Figure 1. DTV connectors and adaptors.

DTV Receiver with Component Video Connections

(Figure 2)

- 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 RCA-type cables from the Y/Pr/Pb outputs on the DTV receiver to HIGH RESOLUTION INPUT Y/Pr/Pb on the TV back panel. You may need to set the DTV input assignment to YPrPb in the *Assign Input Menu*, page 33.
- 3 Connect the L (left) and R (right) audio cables from the DTV receiver and to DTV AUDIO on the TV back panel.
- 4 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.
- 5 The H and V connections on the TV back panel are not used when connecting component video (Y/Pr/Pb).

IMPORTANT

- ➔ See *Appendix B*, page 59, for component video signal compatibility information.
- ➔ For digital audio connections, see your DTV receiver and A/V receiver Owner's Guides.

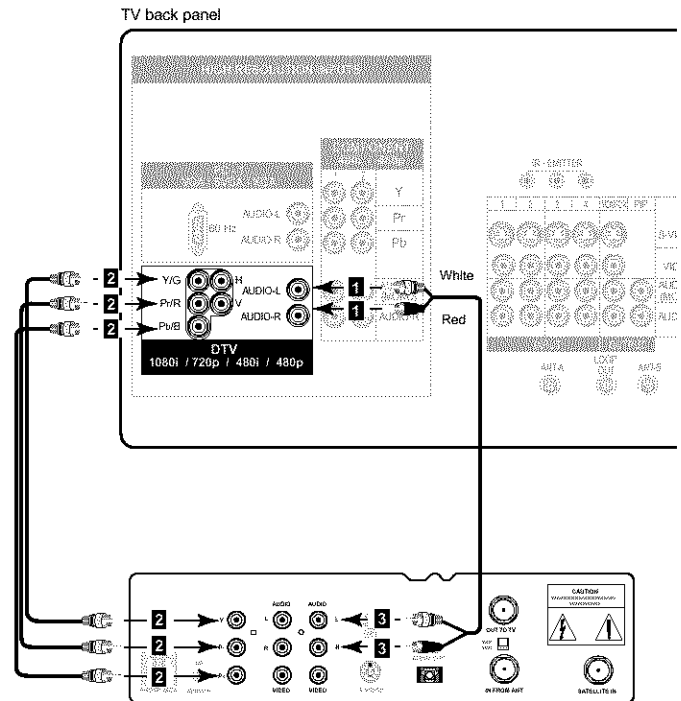


Figure 2. Connecting the DTV receiver with component video connections.

Connecting a DTV Receiver

IMPORTANT

- See *Appendix B*, page 59, for component video signal compatibility information.
- For digital audio connections, see your DTV receiver and A/V receiver Owner's Guides.

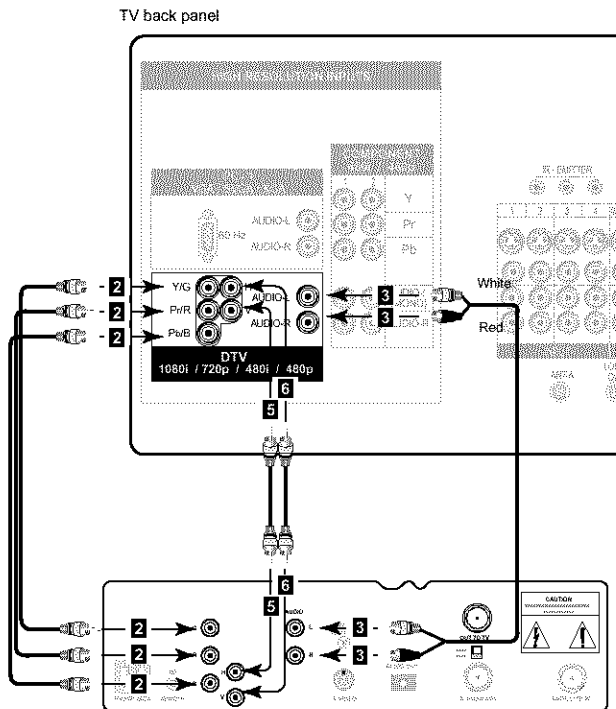


Figure 1. Connecting the DTV receiver with RGB video connections.

DTV Receiver with RGB Video Connections

(Figure 1)

- 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 RGB cables from the DTV receiver to the HIGH RESOLUTION INPUT GRBHV on the TV back panel. You may need to set the DTV input assignment to RGB in the *Assign Input Menu*, page 33.

DTV Receiver		TV Back Panel
2	G (green) =	Y/G
3	R (red) =	Pr/R
4	B (blue) =	Pb/B

- 3 If the DTV receiver has outputs for H and V sync, connect as listed below (**DO NOT** connect if DTV receiver uses "Sync on Green"):

5	H (horizontal sync) =	H
6	V (vertical sync) =	V

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

Connecting a Computer with a PC Monitor Output

Connecting a Computer (Figure 1)

- 1 Connect PC Monitor Out from the computer to PC-1 on the TV back panel or PC-2 on the TV front panel using a 15 pin PC monitor cable. See *Appendix B*, page 59, for 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.
- ➔ 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.

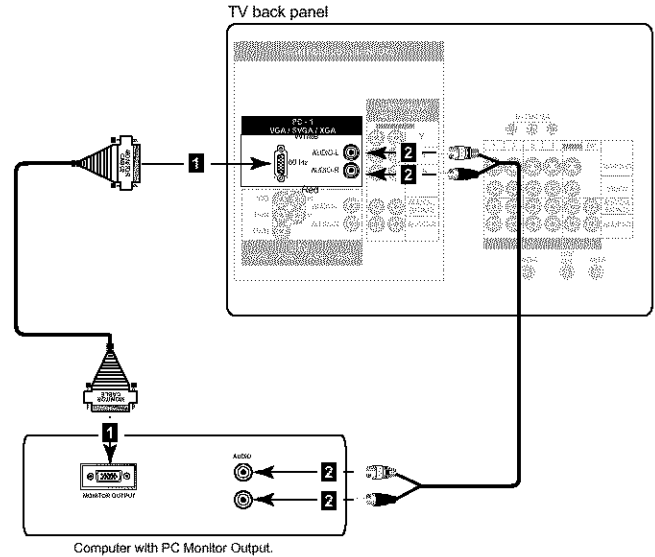


Figure 1. Connecting a computer with a PC monitor output.

Connecting the System 4 Home Theater IR Control (Figure 2)

(Figure 2)

- 1 Connect the IR emitter to IR-EMITTER on the TV back panel.
- 2 Place the IR emitter cable under or along the side of the A/V device. Place the IR lens directly in front of the A/V device's infrared signal receiver. Infrared signal receivers are usually behind the front translucent panel of the device.
- 3 Place any unused transmitters in an out-of-the-way location.
- 4 For permanent installation of the IR emitter cable, use the included adhesive tape to secure the bottom of the emitter to the anchoring object of your choice.

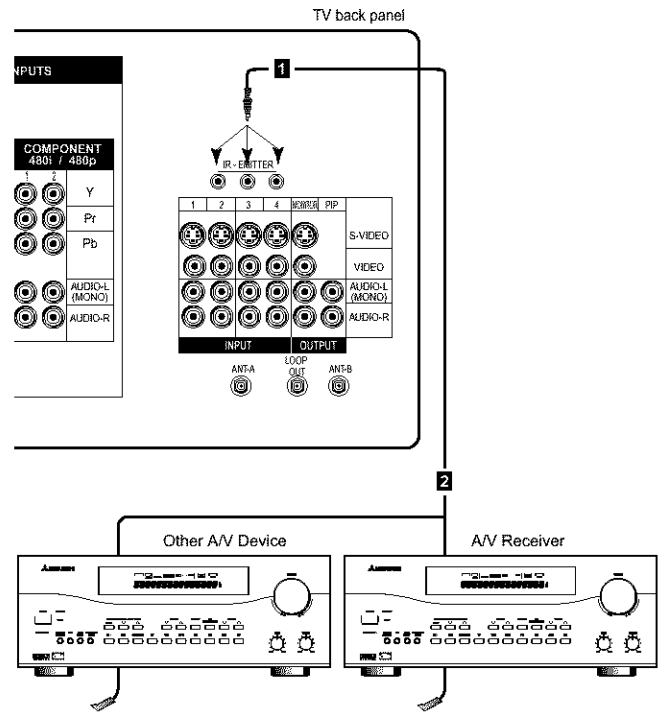


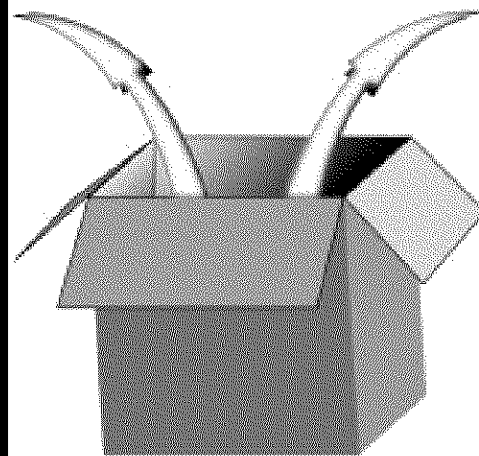
Figure 2. Connecting the System 4 Home Theater IR Control.

IMPORTANT

➔ See page 50 for information on using the TV's IR emitters to control other A/V equipment.

✓ We're proud of the many advances in digital television, in which we have played a major role. Digital brings flawless pictures and sound. Highest performance level, high definition (HDTV) delivers images up to six times sharper than standard analog television.

Part III



Setup

Programming the Remote Control:

To Control Other A/V Products 26 - 27

To Activate the System 4 Home

Theater IR Control 28 - 29

▶ViewPoint® on-screen menu system 30

Using ▶ViewPoint® 30

Menu Screens (Overview) 31, 32

 Setup Menu 33

 Memorize Channels 33

 Assign Input 33

 Language 33

Captions Menu 34

Channel Menu 35

V-Chip Lock 36 - 38

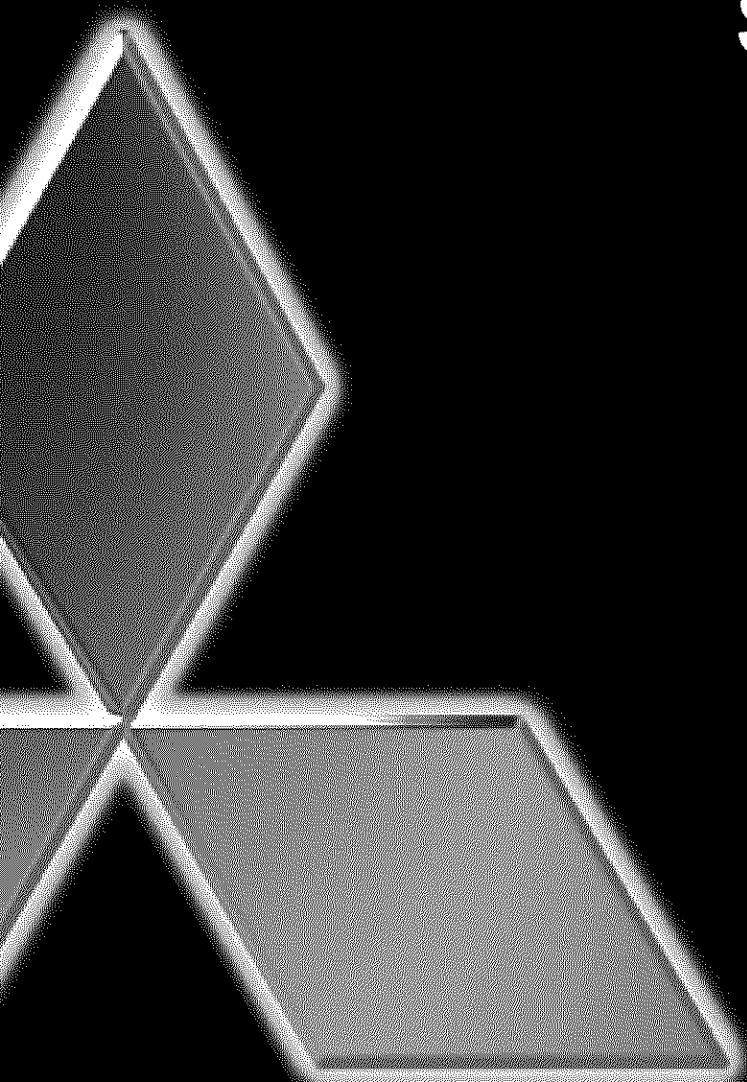
Advanced Menu 39 - 40

 Timer 39

Audio/Video Menu 41 - 42

Clock Menu 43

A/V Settings Descriptions 44 - 45




Programming the Remote Control: To Control Other AV Products

To Program the Remote to Control Other Brands of Audio and Video Products:

(Figures 1-5)

- 1** Move the slide switch at the top of the remote to the product you want to control.
- 2** Press and hold the POWER button on the remote control.
- 3** Enter the first three digit code listed for your equipment, and then release the POWER button on the remote control.
- 4** Point the remote control at the equipment and press the POWER button. 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 three digit code listed in step **3** for your equipment.



1 **2**


Cable Box Codes		
Cable box brand	Code to enter:	If your cable box code is not listed here, please see page 60 for a complete listing.
General Instruments	111, 119, 120, 121, 122	
Jerrold	123, 124, 125, 126, 127	
Oak	102, 137, 139	
Pioneer	101, 116	
Scientific Atlanta	111, 112, 113	
Zenith	100, 117	
To reset to default code, enter 000		

3

Figure 1. Programming the remote to control your cable box.

IMPORTANT

→ If you cannot turn the cable box ON by pressing POWER, try pressing CHANNEL or the number buttons.




1 **2**

Satellite Receiver Codes		
Satellite brand	Code to enter:	If your satellite receiver code is not listed here, please see page 60 for a complete listing.
Mitsubishi DTV - DBS	006	
Dishnetwork	175	
Hughes - DSS	173	
RCA - DSS	176	
Sony - DSS	177	
Toshiba - DSS	170	
Panasonic - DSS	174	
Primestar	178	
To reset to default code, enter 000		

3

Figure 2. Programming the remote to control your satellite receiver.



1 **2**

VCR Codes		
VCR brand	Code to enter:	If your VCR code is not listed here, please see page 60 for a complete listing.
Mitsubishi	001, 002	
Hitachi	020, 043, 065	
JVC	030, 054, 059	
Phillips / Magnovox	043, 044, 051	
Panasonic	041, 042, 043	
RCA	020, 053, 065	
Sony	048, 049, 050	
Toshiba	021, 066	
To reset to default code, enter 000		

3

Figure 3. Programming the remote to control your VCR.

IMPORTANT

→ When set to TV, the PLAY, STOP, REW/REV, and FF/FWD buttons will operate the VCR after the VCR codes have been properly programed into the remote control.

Programming the Remote Control: To Control Other AV Products



1 **2**

3

DVD/LD Player Codes		
DVD/LDP brand	Code to enter:	If your DVD code is not listed here, please see page 60 for a complete listing.
Mitsubishi (DVD)	003	
Mitsubishi (LD)	016, 017	
Panasonic	250	
Pioneer DVD (LD)	252 (, 016, 017)	
Sony	254	
Toshiba	253	
To reset to default code, enter 000		

Figure 4. Programming the remote to control your DVD/LDP.

After entering the correct codes in each position of the remote control, use the slide switch to select which product will respond when an operational button is pressed. If you enter a code from the AUDIO chart while the slide switch is set to TV, the volume and mute functions change to match the A/V receiver. This is useful when using an A/V receiver with the TV all the time. In all other cases, only one of the below devices is allowed for each slide switch position.

TV position:

- ➔ TV
- ➔ A/V receiver (volume and mute only)

Cable/DBS/DTV position:

- ➔ Cable box
- ➔ Satellite receiver
- ➔ DTV receiver

VCR position:

- ➔ VCR

DVD position:

- ➔ DVD
- ➔ LD Player

Audio position:

- ➔ A/V receiver
- ➔ Mitsubishi CD player [If you have a Mitsubishi A/V receiver, the audio position may be used in conjunction with select Mitsubishi CD players. Your audio position must be programmed to either 010 or 011. Plug the CD player power cord into a switched outlet on the back of your A/V receiver. Pressing the POWER button will then turn on your A/V receiver, in turn, turning on your CD player. On select CD players, the transport controls (FF, PLAY, REW, etc.) in the audio position will operate the CD player.]

1 **2**

3

A/V Receiver Codes		
Audio brand	Code to enter:	If your audio code is not listed here, please see page 60 for a complete listing.
Mitsubishi A/V receiver	Set M-VR1000 or M-VR800 to 015 Set M-VR900 or M-VR700 to 010	
Mitsubishi CD player	010, 011	
Denon	234, 235, 236	
Kenwood	200, 208	
JVC	232, 233	
Onkyo	209, 214	
Pioneer	205, 207	
Sony	222	
Yamaha	201, 202	
To reset to default code, enter 000		

Figure 5. Programming the remote to control your A/V receiver.

IMPORTANT

- ➔ If the slide switch is set to TV when you enter an A/V receiver code, VOLUME and MUTE will control the A/V receiver rather than the TV. To return volume and mute control to the TV, set the slide switch to TV, press and hold POWER and enter 000.

IMPORTANT

- ➔ Some manufacturers may change their products, or they may use more than one remote control system. If this is the case, your remote control may not be able to operate your VCR, DVD, cable box, satellite receiver, or A/V receiver.

Programming the Remote Control: To Activate the System 4 Home Theater IR Control

Activation of the System 4 Home Theater IR Control

For select brands of digital A/V receivers', you can set up the remote control to automatically select the correct audio input when you press the HOME THEATER button. At the same time, the TV will select the correct video input. This allows you to watch your best type of video (Component, S-Video) with your best type of audio (Dolby Digital, Pro Logic, etc.) conveniently. See *System 4 Home Theater IR Control*, page 22, for connection instructions.

Once properly activated, when the HOME THEATER button is pressed, System 4 Operates In 2 Parts:

VIDEO Changes the TV to the correct input for the device you wish to operate.

AUDIO Changes a compatible digital A/V receiver to the correct input for the device you wish to operate.

Both functions can operate simultaneously with one touch of the HOME THEATER button. However, you may activate only one if you desire (video to control the TV or audio to control the A/V Receiver). The remote control must be programmed to the appropriate A/V Receiver code prior to the activation of the audio portion (see *To Program the Remote to Control Other Brands of Audio and Video Products*, page 26).

To Activate the Video Portion: (Figure 1)

- 1 Press and hold the HOME THEATER button.
- 2 Press and release the VIDEO button.
- 3 Name the TV input as instructed.



3 **Name TV Input as Shown Below** (see pg 33 for naming help)

Device You Are Using	Name Input
Cable Box connected to ANT-A or ANT-B	Cannot be named
Satellite Receiver connected to any input	DBS
Digital TV/Satellite Receiver connected to DTV	DTV
VCR connected to input 1, 2, 3, 4, or 5	VCR
DVD connected to any input but DTV	DVD

Figure 1. Activating the video portion of System 4 for the CABLE/DBS/DTV layer.

To Activate the Audio Portion:

- 1 Press and hold the HOME THEATER button.
- 2 Press and release the AUDIO button.



Programming the Remote Control: Activation of the System 4 Home Theater IR Control

Testing System 4 for Proper Setup

- 1 Move the slide switch to the position you wish to test.
- 2 Point the remote at the TV.
- 3 Press and release the HOME THEATER button. If the audio portion has been properly setup, your A/V receiver will have changed to the appropriate input as indicated in table 1, page 15. If the video connection of your System 4 has been properly setup, your TV will have changed to the appropriate input.

AUDIO If the A/V Receiver did not change inputs...

- 1 Repeat Special Setups, page 15, and retest.
 - 2 Reposition IR emitter(s), page 22, and retest.
 - 3 Repeat *To Activate the Audio Portion*, page 28, and retest.
- ➔ If your A/V receiver is still not responding to the commands from your remote control, you may have an incompatible A/V receiver. Proceed to Deactivating the System 4 Home Theater IR Control, on this page.

IMPORTANT

- ➔ System 4 is designed for use with A/V receivers that have at least 4 inputs. A/V receivers with fewer may be only partially compatible.

If the A/V Receiver changed to an input other than the one indicated in table 1, page 15.

- 1 Connect the audio output from your A/V device to the A/V receiver input that your A/V receiver DID change to, and retest.

If the TV did not change inputs...

- 1 Repeat *To Activate the Video Portion*, page 28, and retest.

Deactivating the System 4 Home Theater IR Control

- 1 Simultaneously press the CANCEL button and the HOME THEATER button.

IMPORTANT

➔ When only the Audio Portion of System 4 is activated, the TV will automatically select Input 1 when DBS, VCR, DVD or AUDIO is selected and the HOME THEATER button is pressed.

This is useful when the video for these products are passed through the A/V Receiver.

When only the Video Portion is activated, the A/V Receiver will automatically select the TV audio input when the HOME THEATER button is pressed. This is useful when audio cables for DBS, VCR and DVD are connected directly to the TV.



The 3D Graphical ViewPoint® Menu System

Your TV has Mitsubishi's exclusive 3D Graphical ViewPoint® on-screen operating system, which provides on-screen information for menu choices and changes (Figure 1).

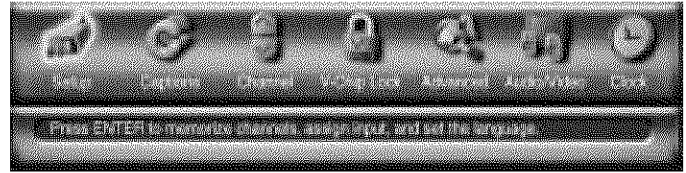
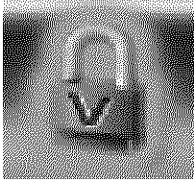


Figure 1. MAIN Menu: The MAIN menu screen will always be the first screen that appears when you press the MENU button.



A picture (icon) will be highlighted when selected with the ADJUST arrows. When selected, the appropriate menu will appear. You may then make changes within the menu or access sub-menus, if available.



A button indicates that you will access a sub-menu or start an automatic function by making this selection.

The ViewPoint® system includes the following special features:

- The currently selected icon or button is highlighted with a yellow outline and the text color will be yellow.
- On-screen instructions provide complete menu choice information.
- Some on-screen menu options must be set before other options are available. For example, "Set the Timer" will only be possible if "Clock Time" and "Set Day" have been set.

The following buttons on your remote control will help you to navigate within the ViewPoint® system (Figure 2):

- 1** ADJUST ◀ or ▶ to select the menu item you want to change.
- 2** ADJUST ▲ or ▼ to change the settings.
- 3** ENTER to enter into a menu, start an automatic function, or select a checkbox.
- 4** CANCEL to clear a setting, or stop an automatic function.
- 5** MENU to move back one menu screen at a time.
- 6** HOME to exit all menus and return to TV viewing.

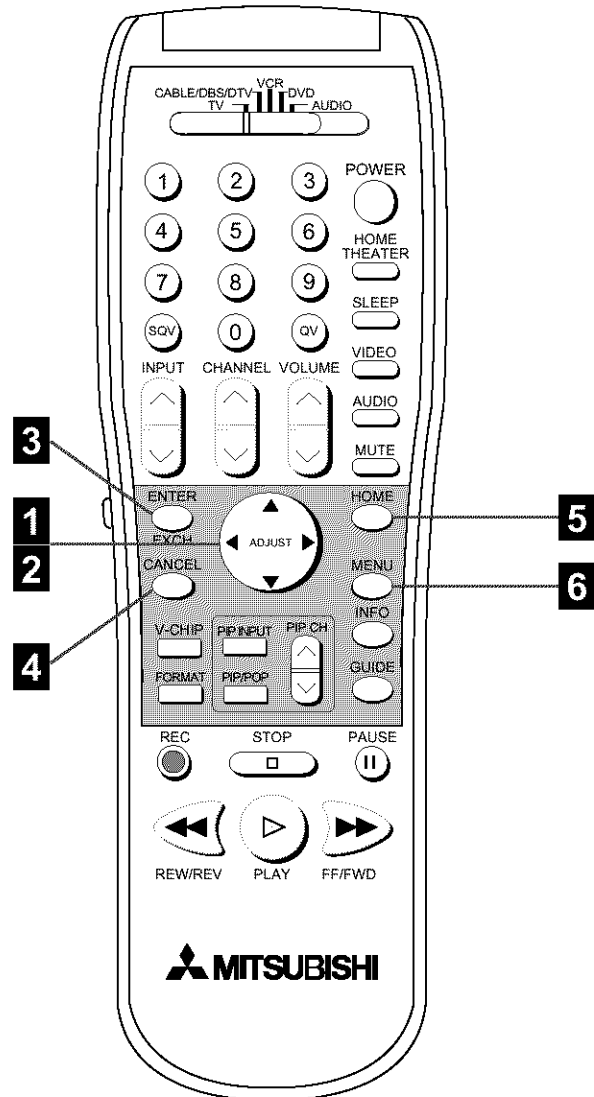


Figure 2. These buttons are used for navigation within the ViewPoint® on-screen operating system.

Menu Screens (Overview)



Figure 1. Setup Menu

Setup Menu

(Figure 1)

You can put channels in memory, turn on or off input connections of the TV, and select the menu system to display in English or Español (Spanish).



Figure 2. Captions Menu

Captions Menu

(Figure 2)

Display captions or text, and choose black or gray as the background color for the closed caption area.



Figure 3. Channel Menu

Channel Menu

(Figure 3)

Use to customize the channel information for Ant-A and Ant-B. Manually add or delete channels from memory, name channels for Ant-A and Ant-B, or add your favorite channels to a SQV (Super Quick View™) list.



Figure 4. V-Chip Menu

V-Chip Lock Menu

(Figure 4)

Block or allow programming based upon rating signals sent by the broadcast station, or by time.





Menu Screens (Overview)

Advanced Menu

(Figure 1)

Set your TV to turn on automatically, display a blue screen when viewing an input with no signal, enhance the darker parts of bright pictures, and check the lamp elapsed time.



Figure 1. Advanced Menu

Audio/Video Menu

(Figure 2)

AV Memory Reset on the menu allows you to return the AV settings for the current input to the factory presets. AV Reset on the front panel resets all inputs at one time. You can also adjust some or all of the A/V settings, (each input can be set to your preferences), turn the TV speakers on or off, and choose how you want to control the TV's audio output.



Figure 2. Audio/Video Menu

Clock Menu

(Figure 3)

Manually set the time for the TV, or select Auto and the TV will automatically set the time based upon Extended Data Service (XDS) time data. This time data is usually broadcast by your local PBS station.



Figure 3. Clock Menu

Setup Menu: Memorize channels and Assign Input



Figure 1. Memorizing Channels

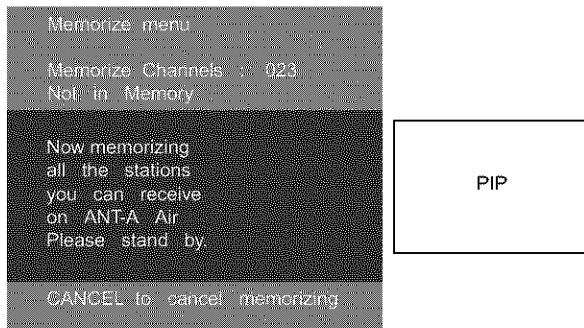


Figure 2. Memorize Menu



Figure 3. Assign Input Menu



Figure 4. Language

Memorize Channels

(Figure 1 and 2)

This selection memorizes the channels your TV can receive and skips the unused or weak channels. You can stop memorization at any time by pressing CANCEL. Channels memorized prior to pressing CANCEL will stay in memory. After channels are memorized, you may select memorized channels in ascending or descending order by pressing the CHANNEL button on the remote control.

IMPORTANT

→ DTV Note: If you have a DTV receiver connected, you will need to use that receiver's channel memorization system to memorize digital channels.

Assign Input Menu

(Figure 3)

Assign Input turns off unused inputs, turns them on again, or changes the name of the input. If you turn an input Off, it will be skipped when you press the INPUT button on the remote control. Your choices are:

- Ant-A, and Ant-B: On or Off.
- DTV: YPrPb, RGB, or Off.
- Input: Cycle through a list of inputs (Inputs 1 - 5, Component Inputs 1 - 2, PC-1, and PC - 2).
- Status: Turn the selected input On or Off.
- Name: Name the selected input.

Language

(Figure 4)

Display the on-screen menus in either English or Spanish (Español). The first time your TV was powered on, you were requested to select an on-screen menu language. You may change your selection by pressing the ▲ or ▼ button on the remote control.



Captions Menu: Closed Captions

Captions Menu

(Figure 1)

Broadcasters can send either Standard or Text closed captioning. Standard closed captioning follows the dialogue of the characters on-screen and displays in a small section of the screen. Text closed captioning often contains information such as weather or news and covers a large portion of the on-screen program. Your TV can decode four different standard and four different text closed captioning signals from each TV station. However, each TV station may broadcast only one or two closed captioning signals, or none at all.

Within the Captions Menu, you can turn on or off the closed caption decoder, select the type of captions or text, and choose black or translucent gray as the background color for the closed caption area.

Closed Captions

(Figure 1)

The TV can display one of the following:

- CC1, CC2, CC3, or CC4: Standard closed captioning signals.
- Text1, Text2, Text3, or Text4: Text closed captioning signals.
- On if mute: Closed captions when mute. When selected, the standard closed captioning signal (CC1) will turn on/off by pressing the MUTE button on the TV remote control.
- Off: No closed captions.

CC Background

(Figure 1)

To make the closed captions easier to read, you can choose to display the background color as either black or translucent gray.



Figure 1. Captions Menu

IMPORTANT

- ➔ When Text closed captioning is selected, a large black or gray box will appear on your TV screen if no signal is broadcast.

IMPORTANT

- ➔ The content of captions is determined by the broadcaster. If your captions show strange characters, misspellings, or odd grammar, it is not a malfunction of the TV.

Channel Menu: Antenna, Channel, Memory, Name, and SQV™



Figure 1. Channel Menu

Antenna

(Figure 1)

Select Ant-A, or Ant-B. For each antenna, you can add or delete channels in memory, name channels, and add channels to the SQV (Super QuickView™) list.

Channel

(Figure 1)

Select the channel you want to add or delete from memory, name, or add to the SQV (Super Quick View™) list.

Memory

(Figure 1)

After all available channels have been memorized with *Memorize Channels*, page 33, weaker channels viewed with Ant-A or Ant-B can be added and unwanted channels can be deleted.

Use the CHANNEL button on the remote control to view memorized channels.

Name

(Figure 1)

Channels shown on Ant-A or Ant-B can be given names (up to four characters). Select the character by using ▲ or ▼ button, and press ENTER. To cancel the character, press CANCEL. After you enter a name, it will appear on the TV screen, next to the channel number.

SQV (Super Quick View™)

Using The Menu Screen

(Figure 1)

SQV (Super Quick View™) allows you to put together a list of your favorite channels from Ant-A and Ant-B. You can store up to 6 channels in each of the 9 different memory banks. Once you have added a channel to the SQV memory, "SQV" will appear under the channel number on the TV screen.

SQV (Super Quick View™)

Using The Remote control

Viewing and changing SQV banks using the remote control:

- 1 Press the SQV button.
- 2 To change memory banks, press a number button within 5 seconds of pressing the SQV button.
- 3 Press the SQV button repeatedly to cycle through the channels available in that bank.

Adding SQV channels using the remote control:

- 1 Use the CHANNEL or number buttons to select the channel you want to add to the current SQV memory bank.
- 2 Press and hold the SQV button for about 3 seconds. When "SQV" and the memory bank number appear under the channel number, the channel has successfully been added.

Removing SQV channels using the remote control:

- 1 Press the SQV button repeatedly until you see the desired channel.
- 2 While the channel number and SQV indicator are still displayed on the screen, press the CANCEL button. If the CANCEL button is not pressed before the SQV indicator disappears, the channel will not be removed.
- 3 When the SQV indicator disappears, the channel has successfully been removed.



V-Chip Lock Menu: V-Chip Lock

V-Chip Lock

(Figure 1)

The V-CHIP LOCK allows you to Block or Allow programs based upon rating signals sent by the broadcasting station. The TV comes from the factory with the V-Chip lock in the Off setting. You can turn the lock On within the V-Chip Menu. The default setting is TV-PG, allowing only programs rated TV-PG or lower. You can change the blocking level to various TV or movie ratings, lettered categories, and by time. After changing channels or inputs, there may be up to a 5 second delay before the V-Chip lock takes effect. The V-CHIP button on the remote control enables you to conveniently turn the lock on or off.

Entry to the V-CHIP LOCK

(Figures 2-3)

The first time you press the V-CHIP button on the remote control, or select V-CHIP LOCK from the MAIN menu, or after you have cancelled your passcode you will see the screen shown in figure 2. Use the number buttons on the remote control to input a four-digit passcode, then press ENTER. You can delete a character and move back one space by pressing CANCEL. You can exit without inputting a passcode by pressing MENU or HOME. The next time you press the V-CHIP button on the remote control, or select V-CHIP LOCK from the MAIN menu, you will see the menu screen in figure 3.



Figure 1. V-Chip Lock Menu

V-CHIP LOCK
To go to the menu,
enter a new passcode.

Use the NUMBER buttons,
then press ENTER.

Figure 2. V-Chip Lock passcode screen (first-time entry)

V-CHIP LOCK
To go to the menu,
enter your passcode.

Use the NUMBER buttons,
then press ENTER.

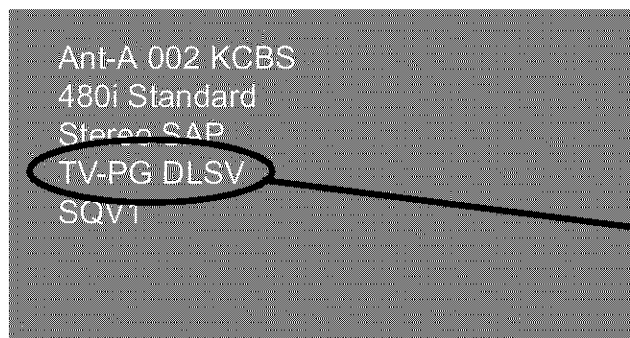
Figure 3. V-Chip Lock passcode screen (re-entry)

IMPORTANT

→ If you forget your four-digit passcode, see *Appendix A*, page 57.



V-Chip Lock Menu: V-Chip Lock



V-Chip Rating Information

(Figure 1)

When provided by the broadcaster, V-Chip rating information can be displayed by pressing the INFO button on the remote control. Rating guidelines are provided by broadcast stations. TV programs and made-for-TV movies can be blocked by the TV Rating and/or Categories signal. Made-for-theater and direct-to-video movies can be blocked by the Movie Rating signal.

Figure 1. V-Chip rating information.

IMPORTANT

→ If no V-Chip rating and/or category signal is sent from the broadcaster, no rating information will be displayed, and the V-CHIP LOCK will not be able to block the program or movie.

TV Ratings and Descriptions	TV-Y Youth	TV-Y7 Youth 7+ Years	TV-G General Audience	TV-PG Parental Guidance	TV-14 14+ Years	TV-MA Mature Audience
-----------------------------	---------------	----------------------------	-----------------------------	-------------------------------	--------------------	-----------------------------

Table 1. V-Chip rating information that may be included with TV programs and made-for-TV movies. If you set the lock to TV-G; TV-Y, TV-Y7, and TV-G will be available, and TV-PG, TV-14, and TV-MA will be blocked.

TV Categories and Descriptions	Program Not Rated	FV Fantasy Violence	D Sexual Dialog	L Adult Language	S Sexual Situations	V Violence
--------------------------------	----------------------	---------------------------	-----------------------	------------------------	---------------------------	---------------

Table 2. V-Chip category information that may be included with TV programs and made-for-TV movies. If you set the lock to block L; all programming carrying the L signal will be blocked (regardless of its TV rating).

Movie Ratings and Descriptions	OFF V-Chip is off	G General Audience	PG Parental Guidance	PG-13 13+ Years	R Restricted	NC-17 18+ Years	X Adult
--------------------------------	-------------------------	--------------------------	----------------------------	--------------------	-----------------	--------------------	------------

Table 3. V-Chip rating information that may be included with made-for-theater and direct-to-video movies. If you set the lock for PG-13; G, PG, and PG-13 will be available, and R, NC-17, and X will be blocked.

IMPORTANT

→ Video tapes, laser discs, and DVD's may not contain the special V-Chip rating signals. If this occurs, the V-CHIP LOCK will not be able to block the program or movie.

IMPORTANT

→ "Programs Not Rated" is a V-Chip category that applies to broadcasted programming such as news, weather, or emergency programs. Please use care when blocking this category.

V-Chip Lock Menu: V-Chip Lock Hours/Time

V-Chip Lock Hours/Time

(Figure 1)

V-Chip Lock Hours/Time will allow you to activate the V-Chip or lock the entire TV during specific hours.



Figure 1. V-Chip Hours/Lock by Time menu

V-Chip Start Time and V-Chip Stop Time

(Figure 2)

Select when you would like the V-Chip to be Active. By setting the V-Chip Start Time and V-Chip Stop Time to the same time, the V-Chip will be active 24 hours a day.

Press ▲ or ▼ to slowly adjust the time. Press and hold ▲ or ▼ to quickly adjust the time.

Lock by Time, Lock Time, and Unlock Time

(Figure 2)

Lock by Time locks all channels and inputs based upon the Lock Time and Unlock Time. You must input your 4-digit passcode to enable the TV when it is locked. By setting the Lock Time and Unlock Time to the same time, the Lock by Time will be active 24 hours a day.

Passcode Screen

(Figure 3)

To view a V-Chip blocked program or to watch the TV during a scheduled lock time, you must enter your 4-digit passcode.

IMPORTANT

→ If you forget your four-digit passcode, see *Appendix A*, page 57.

Channel 007 is locked
 V-Chip locked the program
 because the rating is
 TV - PG DLSV.
 To watch the program, enter
 your passcode.

Use the NUMBER buttons,
 then press ENTER.

Figure 2. Passcode Screen

Advanced Menu: Timer



Figure 1. Timer selection in the Advanced Menu.



Figure 2. Timer Menu

Timer Menu

(Figure 2)

The timer can be turned On or Off. When On, you need to select the time to turn on, the day to turn on, and the channel to display. At your pre-selected time, the timer will turn the TV on, and a message will be displayed, "Press a key for the TV to stay on". Any button on the remote control must be pressed within 5 minutes, or the TV will turn itself off.

Set Time

Select the hour and minute, including AM or PM, when the TV is to turn on.

Press ▲ or ▼ to slowly adjust the time.

Press and hold ▲ or ▼ to quickly adjust the time.

TIMER

(Figure 1)

The timer will automatically turn the TV on (if it is off) at the time you schedule and select.

IMPORTANT

→ The TV's clock must be set before you can set the timer. If you have not set the clock and/or day, you will see the CLOCK menu instead of the Timer menu.

Set Day

Select the days that the TV will turn on automatically. You can select Everyday, Mon-Fri (Monday through Friday), or the individual days of the week.

Input

Select the input to use when the timer turns on the TV. If the TV is already on, the timer will turn the TV to this selected input.

Channel

When Ant-A or Ant-B is the selected input, you may select any memorized channel. The TV will tune to this channel when the timer turns it on.



Advanced Menu: Video Mute, Black Enhancement, and Lamp Status

Video Mute

(Figure 1)

Video Mute lets you display a blue background when no signal is being received on inputs 1-5, Component Inputs 1 - 2, DTV, PC-1 or PC-2.

Black Enhancement

(Figure 1)

The contrast is enhanced for better picture quality. This will not be effective on entirely dark scenes.

Lamp Status

(Figure 2)

This selection confirms the Lamp Elapsed time.

IMPORTANT

- When the Lamp Elapsed timers, the TV will display a warning message for one minute. This message will also be displayed the next 5 times the TV is turned on.



Figure 1. Advanced Menu



Figure 2. Lamp Status

Audio/Video Menu: AV Memory, and Audio/Video settings



Figure 1. Audio/Video Menu

Audio/Video menu

(Figure 1)

Each of the 12 inputs has its own A/V memory. You can adjust each input's A/V memory in two ways. You can use the menu, or the remote control.

A/V Memory

A/V Memory Reset will return the currently selected input's, A/V memory to the factory settings. To reset an input's, A/V memory, select A/V Memory Reset, select the input you want to reset, and press ENTER.

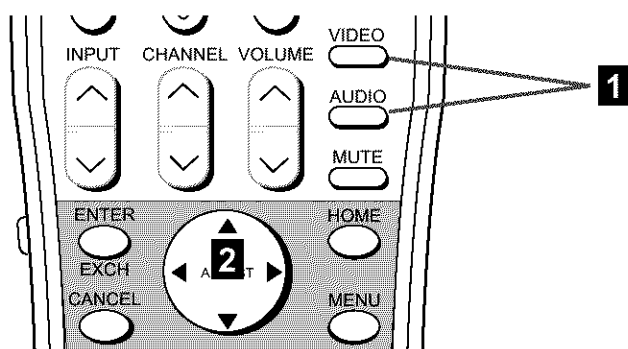


Figure 3. The AUDIO, VIDEO, and ADJUST buttons.

Audio settings and Video settings

After selecting AUDIO SETTINGS or VIDEO SETTINGS, you can adjust the settings by pressing ▲, ▼, ◀, or ▶. For descriptions of the individual A/V settings see *A/V Setting Descriptions*, pages 44 - 45.

Using the AUDIO and VIDEO Buttons on the Remote Control

(Figure 3)

- 1** Press AUDIO or VIDEO to cycle through the available settings.
- 2** Press ◀ or ▶ to adjust the setting. After 5 seconds of inactivity, the setting display will disappear.

Audio/Video Menu: TV Speakers, and Audio Output



TV Speakers

(Figure 1)

This selection will turn on or off the TV's internal speakers. You may select Off when sending the sound through a separate stereo system or surround sound A/V receiver.



Figure 1. TV Speakers

Audio Output

(Figure 2)

Select Fixed if your audio receiver or stereo system can be controlled with a remote. This allows you to adjust the volume with the system's remote control or the TV remote control, if compatible. This setting is better for surround sound receivers. Select Variable if your audio receiver or stereo system cannot be controlled with a remote. This allows the TV's internal circuitry to adjust the volume.



Figure 2. Audio Output

Clock Menu: Clock Setting (Manual)



Figure 1. Clock Menu (Manual)

Clock Setting (Manual)

(Figure 1)

For the manual clock setting, select the current time, including AM or PM.

Press ▲ or ▼ to slowly adjust the time.

Press and hold ▲ or ▼ to quickly adjust the time.

Set Day

(Figure 1)

When Manual has been selected for the Clock Setting, you need to select the current day of the week.

Clock Setting (Auto)

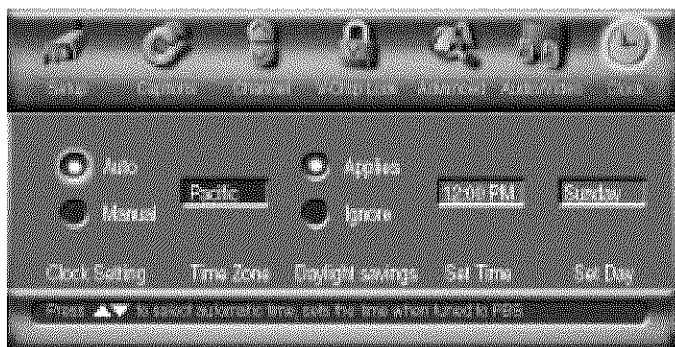


Figure 2. Clock Menu (Auto)

Clock Setting (Auto)

(Figure 2)

Setting the Clock Setting to Auto will automatically set the day and time using Extended Data Service (XDS) time data. This data is automatically retrieved from a PBS channel or other channel carrying this service.

Time Zone

(Figure 2)

When Auto has been selected for the Clock Setting, you need to select the correct time zone (Atlantic, Eastern, Central, Mountain, Pacific, Alaska, or Hawaii) for your area.

Daylight savings

(Figure 2)

When Auto has been selected for the Clock Setting, you need to select the Daylight Savings Time (DST) option that your state uses (Applies =uses DST, or Ignore =does not use DST).

The clock time and day will be set automatically after tuning to a channel carrying the Extended Data Service (XDS) time data (usually your local PBS channel.)



A/V Setting Descriptions: Audio

Audio Settings

- **Bass** enhances or reduces low frequency sound.
- **Treble** enhances or reduces high frequency sound.
- **Balance** adjusts the level of sound between the left and right speakers.
- **Surround** creates simulated stereo and surround effects. Your choices are:
 - **Off:** No surround effects. Use this setting when using an A/V receiver with Dolby™ Pro Logic Surround, or Dolby™ Digital Surround. .
 - **Simulated Stereo:** Your TV will create a simulated stereo effect when watching a non-stereo program.
 - **Surround Sound:** Your TV will create a simulated surround effect when watching a stereo program.
- **Listen to** (for Ant-A and Ant-B) determines how your TV will receive a broadcast audio signal and play back the sound you hear. Your choices are:
 - **Stereo:** Default setting. The TV will play stereo broadcasts in stereo and mono broadcasts in mono. The word "Stereo " will be displayed when you tune to a channel broadcasting stereo.
 - **SAP (Second Audio Program):** Additional monaural soundtrack that you cannot hear during normal TV viewing. The SAP signal might be related to the program you are watching, such as a soundtrack in a foreign language, or unrelated to the program you are watching, such as a weather report. If a SAP signal is broadcast, the letters "SAP " will be displayed when you tune to the channel.
 - **Mono:** Reduces background noise, and should be used when receiving a weak stereo audio signal. All audio will be played mono with this setting.
- **Listen to** (for INPUTs) is not available.
- **Level Sound** automatically equalizes the volume level of programs containing significant level differences from one segment to another (for example, regular programming to commercials). To receive the best fidelity with music programs, turn this setting to Off.



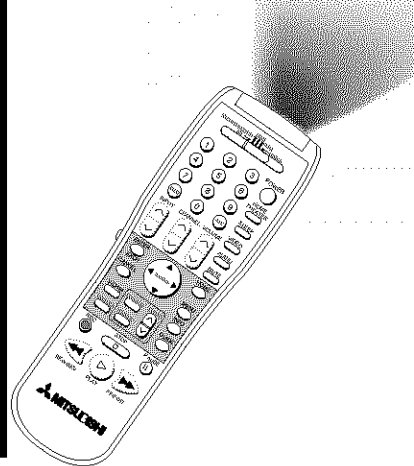
A/V Setting Descriptions: Video

Video Settings

- **Contrast** provides a slider to adjust the white-to-black level. Low contrast shows a variety of shades in darker images, while high contrast shows darker images more uniformly black and makes colors appear more vibrant.
 - **Brightness** provides a slider to adjust the overall brightness of the picture.
 - **Sharpness** provides a slider to adjust the detail and clarity.
 - **Color** provides a slider to adjust the color intensity.
 - **Tint** provides a slider to adjust the proportion of red to green.
 - **Color Temp** (color Temperature) allows you to adjust how white images are displayed. Your choices are:
 - Low: White images will have a warm cast to them. This adjustment is an average and can vary due to ambient room lighting, video scene brightness and the TV's age. The Low represents the industry standard for NTSC pictures.
 - High: White images will have a cool cast to them. This setting may provide the most realistic picture under bright lighting.
 - Medium: White images will be balanced between the Low (warm) and High (cool) settings.
 - **Video Noise** reduces minor noise (graininess) in the broadcast or input signal. Your choices are:
 - Standard : No noise reduction. Use this setting when the picture quality is good.
 - Reduction : Use this setting when the picture quality is poor and noisy. This mode will reduce picture noise and soften the picture quality.
 - **Image Type** maximizes the original camera media: Video or Film. Video media uses a video camera and is created at 30 frames per second. Film media uses a film camera and is created at 24 frames per second. Examples of video media are live TV broadcast such as news, special events, or video taped programs. Exam-
- ples of film media are motion pictures, made-for-TV movies, and many prime time programs. Filmed media is converted by the broadcaster or home video company to 30 frames per second to match TV or video standards. This conversion can leave subtle "picture artifacts" or conversion errors. Setting the Image Type to Film can reduce the picture artifacts and improve the picture quality, when viewing a 480i image.
- **AV Mode** allows you to adjust the brightness of the dark parts of the image. Your choices are:
 - Standard: No correction.
 - Movie: This mode will brighten the dark parts of the image.
 - Graphics: This mode will darken the dark parts of the image.
 - **Auto Position** Automatically adjusts the position of the image according to the input signal automatically. (For PC only.) To use this function, press the number 1 button on the remote control.
 - **Horizontal Position** Adjusts the horizontal position of the image. (For DTV, PC only.)
 - **Vertical Position** Adjusts the vertical position of the image. (For DTV, PC only.)
 - **Fine Detail** allows you to adjust the image when the image flickers. (For PC only.)
 - **Black Border** allows you to turn on a black border when picture disturbances appear around the edges of the image. Your choices are:
 - Off: No border.
 - Small: A thin border around the edges of the image.
 - Large: A larger border around the edges of the image.

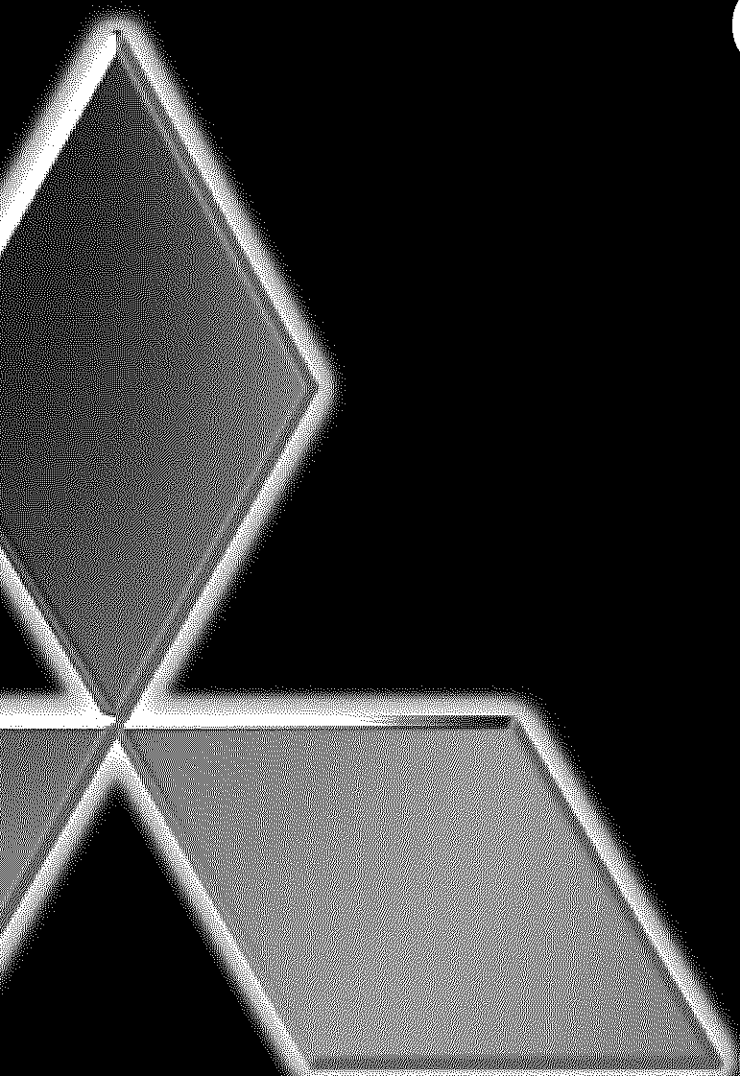
Ever wish you were actually part of the movie or sitting in a field-level box at the 50-yard line, watching the game? The Mitsubishi total home theater system is the next best thing to being there. A home theater immerses you in both video and audio to a point of surrealism. The core of the home theater system is your bigscreen television, the biggest one your room can accommodate.

Part IV



Operation

Remote Control Functions	48 - 55
Overview	48
Care and Operation	49
Channel Selection	50
Sleep Timer	50
System 4 Home Theater	
IR Control	51
Special Functions	52
Operation of PIP and POP	52 - 53
Display Formats	54 - 55



Remote Control Functions: Overview

Overview

(Following page, figure 1)

- 1 Slide Switch:** Select A/V product to be controlled by the remote control.
- 2 Numbers:** Individually select channels or input information into TV.
- 3 POWER:** Turns power on and off for TV and other A/V products.
- 4 SQV (Super Quick View™):** Scan through a memorized list of favorite channels.
- 5 QV (Quick View™):** Switch to last channel viewed.
- 6 HOME THEATER: HOME THEATER:** Enables the Home Theater IR System. Once enabled, a press of this key, when in the VCR, DVD, or Cable/DTV/DBS layer, will properly switch the inputs of the AV receiver and the TV so the audio and video automatically coincide.
- 7 SLEEP:** Set the TV to turn off within 2 hours. See Sleep Timer, page 50, for setup instructions.
- 8 VIDEO:** Select the video settings.
- 9 AUDIO:** Select the audio settings.
- 10 MUTE:** Turn sound on or off.
- 11 INPUT:** Press after selecting the signal to view (Ant-A, Ant-B, DTV, Input-1, Input-2, Input-3, Input-4, Input-5, Component-1, Component-2, PC-1, or PC-2).
- 12 CHANNEL:** Scroll up or down through memorized channels.
- 13 VOLUME:** Change sound level.
- 14 ENTER/EXCH:** Select a channel number or menu item. Exchange PIP or POP and main TV picture.
- 15 HOME:** Exit on-screen menus and return to TV viewing.
- 16 ADJUST:** Navigate menus, change settings, and move the PIP on-screen location.
- 17 CANCEL:** Clear SQV, some menu entries and numbers inputted by Number buttons.
- 18 MENU:** Display on-screen menu system.
- 19 INFO:** Display on-screen summary of the current input used and any broadcast information available (including current V-Chip information).
- 20 GUIDE:** When the slide switch is set to CABLE/DBS/DTV, display the on-screen program guide (some cable boxes and DBS/DTV receivers).
- 21 V-CHIP:** Enable/Disable the V-Chip Lock.
- 22 FORMAT:** Change the shape and size of the main TV picture.
- 23 PIP INPUT:** Select the PIP or POP input source.
- 24 PIP/POP:** Cycle through PIP and POP display choices.
- 25 PIP CH:** Scroll up or down through memorized channels in PIP or POP.
- 26 REC:** Manually record with your VCR.
- 27 STOP:** Stop your VCR, DVD, or CD.
- 28 PAUSE:** Pause your VCR, DVD, CD, or freeze the PIP or POP image.
- 29 REW/REV:** Rewind or reverse search with your VCR, reverse scan with your DVD, or skip reverse with your CD.
- 30 PLAY:** Play your VCR, DVD, or CD.
- 31 FF/FWD:** Fast forward or forward search with your VCR, fast play with your DVD, or skip forward with your CD.
- 32 Light:** Use to light up the remote (for four seconds).

Remote Control Functions: Care and Operation

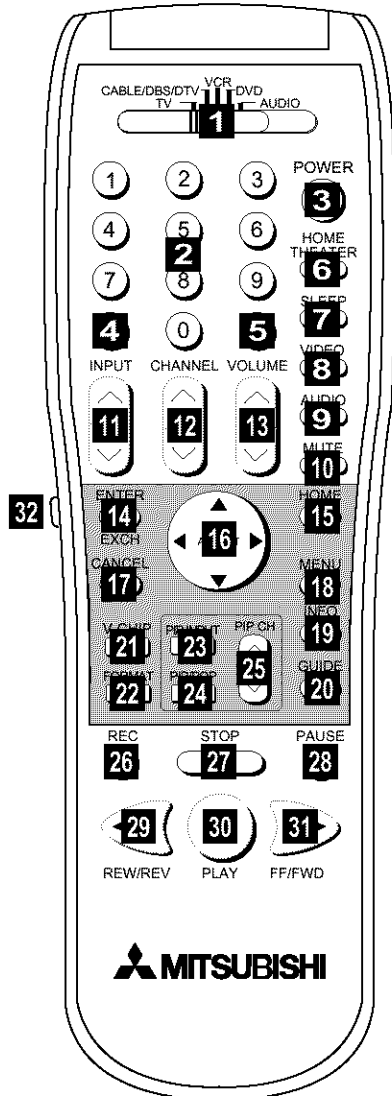


Figure 1. The remote control functions.

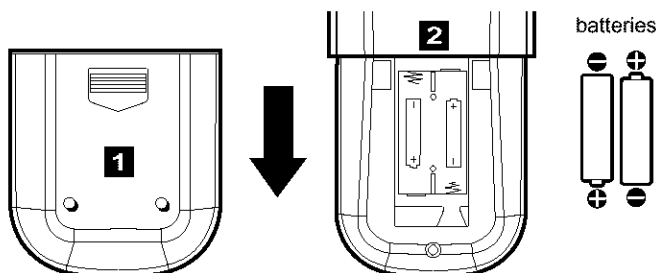


Figure 2. Installing the batteries

Operation

Installing the Batteries:

(Figure 2)

- 1 Remove the remote control's back cover by gently pressing the ridged tab in the direction of the arrow and sliding off the cover.
- 2 Load the batteries, making sure the polarities (+) and (-) are correct.

For Best Results from the Remote Control:

- ➔ Be within 20 feet of the equipment.
- ➔ Do not press two or more buttons at the same time unless instructed to.
- ➔ Do not allow 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 new and old batteries.
- ➔ Do not heat, take apart, or throw batteries into fire.
- ➔ Use only AAA batteries.

Operating the Remote Control:

You can use the remote to control the TV, CABLE/DBS/DTV, VCR, DVD, and AUDIO products. Select the product you want to control by moving the slide switch (1 of figure 1) to the appropriate position. The remote control has been preset to operate the TV and other Mitsubishi products. To program the remote control to operate other products, see *Use of the Remote Control with Other A/V Products*, pages 28 - 29.

IMPORTANT

- ➔ The remote control may return to its initial setting when the batteries are changed. You may need to reprogram.

Remote Control Functions: Channel Selection and Sleep Timer

Channel Selection

For Non-DTV Channels:

➤ Enter three numbers (for channel 2, press 002).

or

➤ Press the channel number and ENTER (for channel 2, press 2, then ENTER).

or

➤ Enter the channel number and wait four seconds. The TV will change automatically.

Sleep Timer

Setting the Sleep Timer:

➤ Press SLEEP on the remote control.

➤ A message box indicating the length of time the sleep timer is to be set for is displayed on the TV screen.

➤ Each press of SLEEP will increase the time displayed by 30 minutes, until the maximum value of 120 minutes is reached.

➤ After 5 seconds of inactivity, the message box will disappear.

➤ Press SLEEP to view the remaining time before the timer turns the TV off.

Cancelling the Sleep Timer:

➤ Press SLEEP to display the on-screen message box.

➤ Press SLEEP repeatedly until OFF is displayed.

➤ After 5 seconds of inactivity, the message box will disappear.

Remote Control Functions: System 4 Home Theater IR Control

The Mitsubishi System 4 Home Theater IR Control is a special feature that makes it easier to use your TV with a digital surround sound A/V receiver. Once your equipment is properly connected and set up, your TV and digital A/V receiver will change inputs together, to match high resolution pictures with the proper surround sound.

When you change inputs on your TV to watch different video products, your TV will send signals via your remote control and the infrared emitters to your digital A/V receiver to change inputs. You will automatically hear the high quality digital surround sound from

digital products like your DTV receiver and DVD player, and high quality analog stereo or surround sound from non-digital products like your VCR.

Additionally, all IR remote signals from your Mitsubishi remote or other manufacturers remote will be passed through your TV to your A/V devices. Your A/V devices can be hidden or behind cabinet doors and controlled by pointing the remote at the TV.

Remote Control Functions: System 4 Home Theater IR Control

Requirements for Operation

- A/V devices connected as described on page 15.
- Cable Box connected as on page 16 or Cable Box with an S-Video output connected as on page 19.
- TV connected to A/V receiver (TV Monitor Audio Out To A/V Receiver TV Input).
- TV Inputs Renamed:

Cable Box connected to Ant A or B	=	Cannot be Renamed
Cable Box connected to Input 1-5	=	Rename To Cable
VCR connected to Input 1-5	=	Rename To VCR
DVD connected to any Input	=	Rename To DVD
Satellite Receiver connected to any Input	=	Rename To DBS
Digital Television Receiver on DTV Input	=	Cannot Be Renamed
- Remote Control programmed to operate your other A/V Devices by System 4 properly activated.
- IR emitters properly connected and placed.

Operation (VCR as example)

IMPORTANT

➔ System 4 allows for only one of the following:

- Cable Box
- Satellite Receiver
- Digital TV Receiver

To watch your VCR:

- 1** Turn on the TV and A/V Receiver.
- 2** Move slide switch to VCR.
- 3** Point remote at the TV and press the HOME THEATER button.
- 4** The TV and A/V Receiver should change to the appropriate inputs.
- 5** Operate the VCR.

IMPORTANT

➔ Other commands from your Mitsubishi remote control, or other manufacturer's remote, will be passed through the TV.

Remote Control Functions: Special Functions

When your remote control has been Programmed to operate another manufacturer's product, the function performed on each layer can vary. The most common functions are:

VCR			
• POWER	• PLAY	• PAUSE	• FF/FWD
• CHANNEL up/down	• REC	• STOP	• REW/REV
• Mitsubishi VCRs will be compatible with additional buttons			
Cable Boxes and Satellite Receivers			
• POWER	• ENTER (on some models)	• ADJUST up/down/left/right (on some models)	
• CHANNEL up/down	• CANCEL (on some models)		
• 0-9 Number Buttons (on some models)	• GUIDE (on some models)		
A/V Receivers			
• POWER	• VOLUME	• MUTE	
Mitsubishi A/V Receivers			
Direct Input Selection Buttons -use number buttons, SQV, and QV (on some models)			
Mitsubishi CD Players (not all functions for all models)			
• PLAY	• FF/FWD	• REW/REV	• PAUSE
			• STOP
DVD and Laser Disc Players (not all functions for all models)			
• POWER	• PLAY	• ARROW up/down/left/right	• PAUSE
• MENU	• STOP (on some models)		• CANCEL (on some models)
• 0-9 Number Buttons (on some models)			• REW/REV
			• ENTER
			• CVHANNEL up/down (on some models)

Remote Control Functions: Operation of PIP and POP

Picture-In-Picture (PIP) and Picture-Outside-Picture (POP) features allow you to view Programming in different ways. While watching the main screen, you can display programs from other channels and other inputs. To see which inputs can and cannot be used together, see *How Connections Affect the PIP and POP*-Table 1, page 14. You can display large and small PIPs, side-by-side pictures, three POPs, or nine POPs.

Activating the PIP and POP

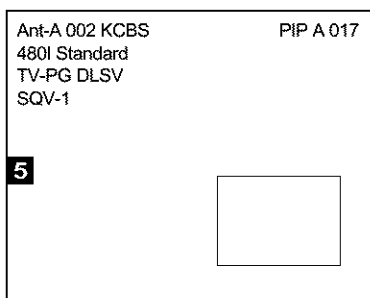
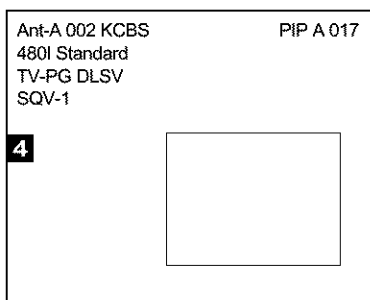
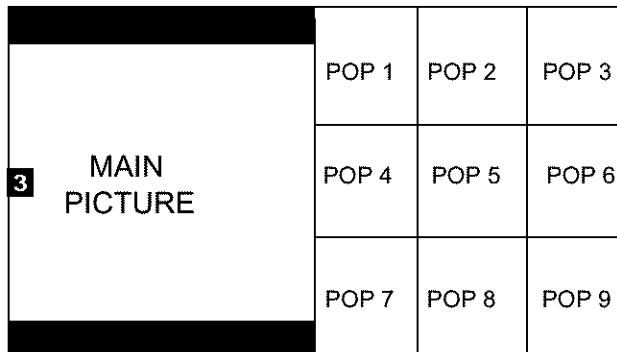
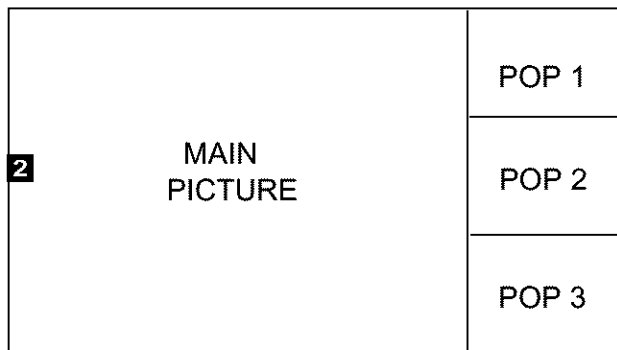
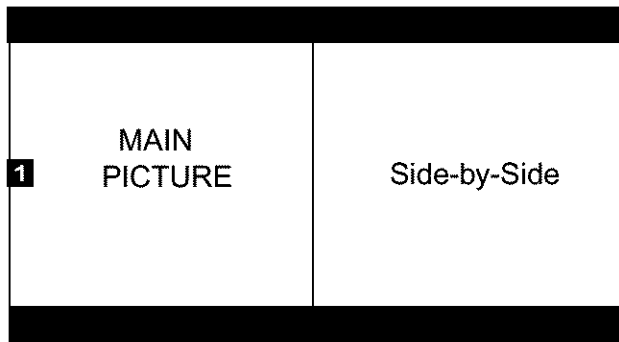
(Figures 1-5 on following page)

Press PIP/POP to choose a display format. With each press of the PIP/POP button on the TV remote control (within 3 seconds of each other), the PIP/POP will cycle through the following display options.

- 1 POP:** side-by-side pictures
- 2 POP:** three POPs
- 3 POP:** nine POPs
- 4 PIP:** large PIP
- 5 PIP:** small PIP

To turn PIP/POP off, wait at least 10 seconds, and press PIP/POP. The next time you activate PIP/POP, the last used PIP/POP format will be displayed first.

Remote Control Functions: Operation of PIP and POP



Changing PIP/POP Inputs

Press PIP INPUT to cycle through available inputs. To see which inputs can and cannot be used together, see *How Connections Affect the PIP and POP* - Table 1, page 14.

Changing PIP/POP Channels

Press PIP CH to scroll up and down through memorized channels on Ant-A, and Ant-B.

Exchanging Program Images

Press ENTER/EXCH to exchange the main picture and the PIP/POP picture.

Moving PIP Image

Press ADJUST ▲, ▼, ◀, or ▶ to move the PIP display anywhere on the main screen.

Automatic POP Switching

When automatic POP switching is active, the TV will cycle through memorized channels or strobe pictures from other A/V components in the POP display. Press PAUSE to activate/pause automatic POP switching.

Freeze the PIP and Side-by-Side Picture

Press PAUSE to freeze the PIP and side-by-side images. When you press PAUSE while viewing normal picture, PIP image will appear and be frozen. Press Pause again to go back to a "live" image.

PIP/POP Audio Signal

For PIP/POP audio connection illustration, see *Back Panel Functions* - 2, page 13. Volume for the PIP AUDIO OUTPUT is controlled by the amplifier or wireless headphones.

Remote Control Functions: Display Formats

This is a wide screen 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 will never be a perfect solution for displaying a narrow image on a wide screen, Mitsubishi offers several display formats to choose from.

Press **FORMAT** on the TV remote control to cycle through the available display formats.

IMPORTANT

→ The Zoom format is not available during PIP/POP functions.

1 Standard: This is the full screen format. HDTV signals will automatically use this format. This format is also useful to display Anamorphic DVDs that have 1.78:1 or 1.85:1 aspect ratios. Anamorphic DVDs that have the 2.35:1 aspect ratio will still display black bars at the top and bottom. Narrow (4:3) images will be stretched evenly from side to side.

2 Expand: This will enlarge the picture, cropping off some of the image at the top and bottom. This is useful to reduce the letterbox top and bottom bars of non-anamorphic DVDs or to correct narrow (4:3) images that have been stretched in the Standard format.

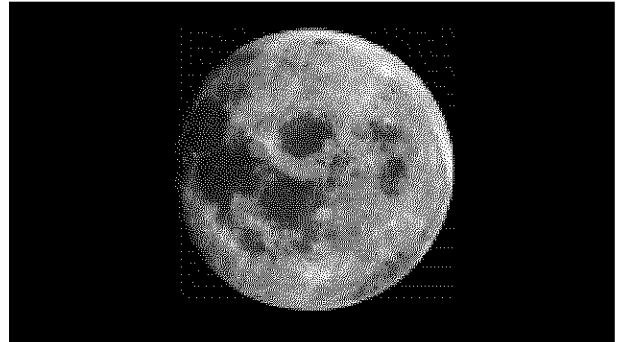
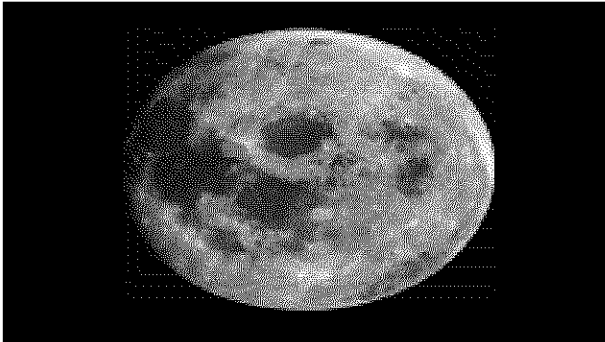
3 Zoom: This will enlarge the picture, cropping off some of the image at each side, and top and bottom. This is useful to remove or reduce the black top and bottom bars on anamorphic DVDs with a 2.35:1 aspect ratio.

4 Narrow: This format will display narrow (4:3) images in their original shape, and add stationary black side bars to fill the screen.

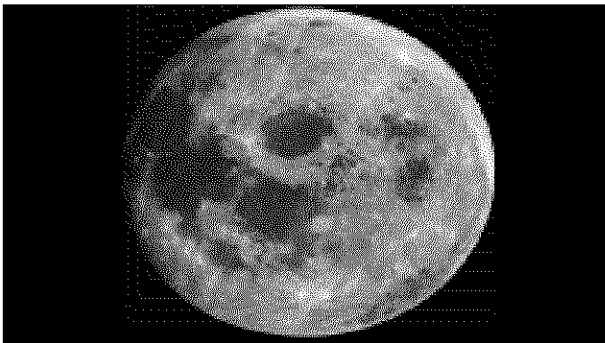
Standard Picture (4:3)

Widescreen Picture (16:9)

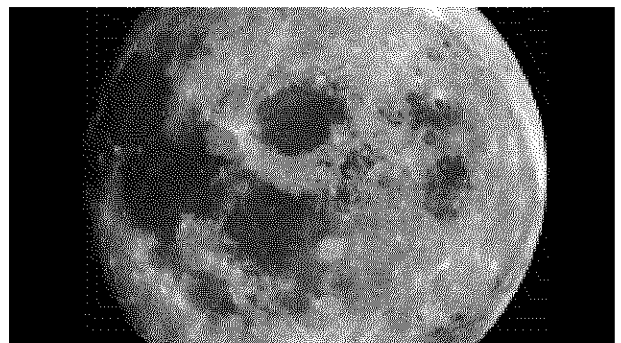
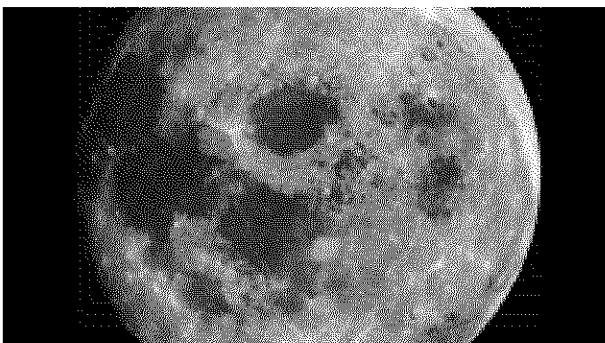
1



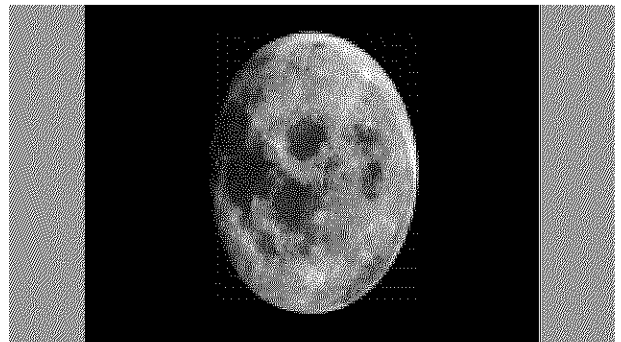
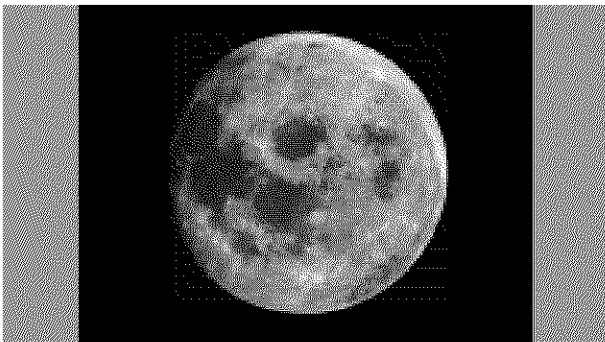
2



3



4



Lock Bypass Instructions Have Been Filed for Future Reference

Appendix A: Bypassing the V-Chip Lock

Bypassing the V-Chip Lock

After you set the lock, you need your passcode to view a V-Chip locked program, view the locked TV, cancel the lock, or enter the V-Chip lock menus.

If you forget your passcode, you can view the locked TV without entering your passcode. This is done by pressing the number 9 and QV buttons on the remote TV control at the same time, when your password is requested. This process temporarily unlocks the TV.

When entering the V-Chip Lock menu, this process deletes your old passcode and prompts you to enter a new passcode.

IMPORTANT

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

IMPORTANT

→ When using this method for changing or deleting your passcode, you must use the remote control included with this TV. You cannot use a Mitsubishi remote control from another component or a "universal" remote.

Appendix A: Bypassing the V-Chip Lock

Component-1 and Component-2 Inputs

These inputs are compatible with component video signals from standard DVD players and other equipment sending a standard NTSC component video signal (480i). These inputs may also be compatible with newer DVD players sending a progressive NTSC component video signal (480p).

Input Levels and Timing with Component Video

- ▶ Y = 1.0Vp-p (includes sync) 75ohms
- ▶ Cr = 700mVp-p, 75ohms (can also receive signals from outputs labeled R-Y and Pr)
- ▶ Cb = 700mVp-p, 75ohms (can also receive signals from outputs labeled R-Y and Pr)

PC-1 and PC-2 Inputs

This input will accommodate most computers capable of supporting a VGA, SVGA or XGA monitor. The only compatible display sync rate is 60Hz.

DTV Input

This input is compatible with most standard DTV receivers with component video outputs. Compatible DTV signals are SDTV 480i, 480p, and HDTV 720P, 1080i.

This input is also compatible with some DTV receivers using RGB with "sync on green" or RGB with "separate H and V sync". Compatible DTV signals are SDTV 480i, 480p, and HDTV 720P, 1080i. Industry standards for DTV RGB signals systems, synchronization, timing, and signal strengths are not currently established. These inputs will not be compatible with all DTV receivers that offer RGB. If your DTV receiver offers both DTV component video signals and DTV RGB signals, Mitsubishi suggests you use the DTV component video signals. Please check the DTV receiver specifications before connecting.

Input Levels and Timing When Used With Component Video Signals

EIA -770. 3 Standard Levels and Timing

- ▶ Y : Vp-p = 1.0V (includes sync) 75ohms
- ▶ Pr : Vp-p = 700mV, 75ohms
- ▶ Pb : Vp-p = 700mV, 75ohms
- ▶ H : Not Used
- ▶ V : Not Used

Input Levels and Timing When Used With RGB Video Signals

- ▶ G(Y) : Vp-p = 1.0V 75ohms
(compatible with sync on green)
- ▶ R(Pr) : Vp-p = 700mV, 75ohms
- ▶ B(Pb) : Vp-p = 700mV, 75ohms
- ▶ H : Vp-p = 4V +/- 1.0V, 75ohms
(when using separate H and V sync)
- ▶ V : Vp-p = 4V +/- 1.0V, 75ohms
(when using separate H and V sync)

Appendix C : Remote Control Programming Codes

A/V Receivers

Mitsubishi	010, 011, 012, 013, 014, 015
Admiral	220
Aiwa	225, 226
Denon	234, 235, 236
Fisher	204
Gerrard	213
Harman Kardon	215
Jensen	223
JVC	232, 233
Kenwood	200, 208
Magnavox	227, 228
Marantz	224
McIntosh	216
Nakamichi	206, 217
Onkyo	209, 214
Optimus	203, 227, 231, 230
Panasonic	219, 218, 221
Philips	223
Pioneer	205, 207
Quasar	219, 218, 221
RCA	203, 205, 227, 231, 230
Sansui	203, 211, 239
Sharp	234, 237
Sony	222
Sound-sigh	238
TEAC	212, 213, 210, 211
Technics	221, 218, 219
Victor	232, 233
Yamaha	201, 202

DVD Players

Mitsubishi	003
Denon	250
Ferguson	251
GE	251
JVC	257
Normande	251
Panasonic	250
Philips/Magnavox	258
Pioneer	252
RCA/Proscan	251, 256
Saba	251
Sony	254
Thompson	251
Toshiba	253
Yamaha	250
Zenith	259

Satellite Receivers

Mitsubishi	
HD/Satellite Receiver	006
Echostar/Dishnetwork	175
GE	176
Hitachi	173, 181
Hughes	173
Panasonic	174
Philips	171, 172
Primestar	178
RCA	176, 179, 180
Sony	177
Toshiba	170
Uniden	171, 172

Cable Box

ABC	124
Archer	132, 125
Cableview	105, 132
Citizen	122, 105
Color Voice	128, 129, 130, 106, 107
Comtronics	128, 129, 130, 106, 107
Cur tis	112, 113
Diamond	124, 132, 125
Eagle	129
Eastern	134
GC Brand	132, 105
GE	111, 112, 113
Gemini	122, 143
General Instrument	
/Jerrold	111, 119, 120, 121, 122, 123, 124, 125, 126, 127
Hamlin	140, 141, 142, 145, 118, 112
Hitachi	103, 124
Macom	103, 104, 105, 108
Magnavox	128, 129, 130, 106, 107, 133, 138
Memorex	130
Movietime	132
Oak	139, 137, 102
Panasonic	109, 110, 114
Paragon	117
Philips	128, 129, 130, 106, 107, 133, 138
Pioneer	101, 116
Pulsar	105, 132
Puser	132
RCA	115
Realistic	132
Regal	112, 118, 140, 141, 142, 145
Regency	134
Rembrandt	137, 132, 105, 138
Samsung	105
Satellite	100
Scientific Atlanta	111, 112, 113
Signature	119, 124, 125, 126, 127, 120, 121, 122, 111
SL Mark	105, 101
Sprucer	105, 110
Starcom	119, 124, 125, 126, 127, 120, 121, 122, 111
Stargate	132, 105
Televue	101, 105
Texscan	144
Tocom	135, 136
Toshiba	104
Unika	132, 125
United Artists	139, 137, 102
United Cable	119, 124, 125, 126, 127, 120, 121, 122, 111
Universal	122, 132
Videoway	106
Viewstar	129, 130
Zenith	117, 100

VCRs

Mitsubishi	001, 002, 060, 067, 068, 061, 062
Admiral	055
Aiwa	047, 052
Akai	049, 034, 035, 036
Audio Dynamic	059, 031
Bell & Howell	025, 033
Broksonic	040, 046
Canon	043, 045
Citizen	026
Craig	025, 049, 026
Cur tis Mathes	065, 044, 047
Daewoo	063, 021, 044, 079
DBX	059, 030, 031
Dimensia	065
Emerson	023, 038, 039, 040, 045, 046, 062, 063
Fisher	025, 028, 029, 027
Funai	047, 046, 040
GE	057, 065, 044
Go Video	057, 069, 070, 071
Goldstar	026
Hitachi	043, 065, 020
Instant Replay	044, 043
Jensen	059
JVC	059, 030, 031, 054, 076, 077
Kenwood	059, 030, 026, 031
LXI	047, 026, 020, 027, 028, 025, 029
Magnavox	051, 043, 044
Marantz	059, 030, 031
Mar ta	026
Memorex	044, 029
MGA	058, 060, 067, 068, 061, 062
Minolta	020, 065
Multitech	067, 047, 024
NEC	059, 030, 031, 054
Olympic	044, 043
Optimus	048, 041, 055, 026
Orion	046, 040
Panasonic	043, 044, 041, 042
Penney	044, 020, 065, 025, 059, 030, 031
Pentax	020, 031, 065
Philco	051, 044, 047, 043, 046, 040
Philips	051, 043, 044
Pioneer	043
Proscan	065, 020, 043, 044, 051, 066, 021, 022
Quasar	041, 042, 043, 044
Radio Shack	053, 044, 025, 056, 029, 060, 047
RCA	053, 065, 020, 043, 044, 049, 051, 066, 021, 022
Realistic	044, 025, 056, 029, 060, 047
Samsung	057, 022, 024, 053
Sansui	059, 046, 040, 072
Sanyo	025, 029
Scott	021, 022, 024, 029, 058, 060, 067, 068, 046, 040
Sears	025, 026, 027, 028, 020
Shaintom	037
Sharp	055, 056
Signature 2000	047, 055
Singer	037
Sony	048, 049, 050, 073, 074, 075
SV2000	047
Sylvania	051, 043, 044, 047
Symphonic	047
Tashiro	026
Tatung	059, 030, 031
TEAC	059, 030, 047, 031
Technics	032, 041, 042, 043, 044
Teknika	044, 047
Toshiba	021, 066
Totevision	026
Vector Research	031
Wards	055, 056, 029, 064, 026
Yamaha	025, 059, 030, 031
Zenith	064

Lamp Replacement

The lamp is the light source for the DLP panel. When the lamp fails, replace it with a new one.

- ❗ Do not remove the lamp immediately after turning off the projector. You may get burned because of the high temperature of the lamp.
- ❗ When replacing the lamp, first press the power button to power off, then wait one hour so that the lamp is cool to the touch.
- ❗ Do not remove the lamp except for replacement. Careless treatment can cause injury or fire.
- ❗ Do not touch the lamp element directly. It may break and cause you to injure or burn yourself.
- ❗ Be sure not to drop the lamp lid screw into the projector. Also be sure not to insert metal or any flammable objects, it may cause fire or electric shock. If any objects are inserted, please unplug the AC cord and contact your dealer.
- ❗ Install the lamp securely. Failure to do so may cause a fire.

Lamp Life

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 user's viewing patterns. Warmer air (or poor ventilation) shortens the lamp life, as does turning the television on and off frequently. Mitsubishi warranties the lamp for 90days or 2000 hours of operation whichever occurs first. However, it is likely that the lamp will last significantly longer than this. When the lamp life reaches 4,000 Hours, the TV will display a warning message for one minute. This warning message will also be displayed the next 5 times the TV is turned on. The purpose of this message is to advise the customer that the lamp may fail soon. To order a new lamp call (800) 553 - 7278.

Caution : Allow the television to cool for one hour before attempting to replace the lamp.

IMPORTANT

- You can confirm the Lamp Elapsed time by selecting the Lamp Status in the Advanced Menu.

Appendix D: Lamp Replacement

Replacing the lamp

- 1 Press the power button to power off, and wait one hour.

IMPORTANT

→ After powerins the TV off, unplug the power cord from the outlet, if possible.

- 2 Remove the front cover in the direction of the arrow as indicated. See figure 1.

- 3 Loosen the wing nuts on the wooden lamp cover and remove. See figure 2.

- 4 Loosen the four screws of the metal lamp cover using a phillips screwdriver (+). See figure 3.

- 5 Remove the metal lamp cover in the direction of the arrow as indicated. See figure 4.

- 6 Loosen the two screws of the lamp cartridge. See figure 5.

➡ If you cannot loosen, please use a phillips screwdriver (-).

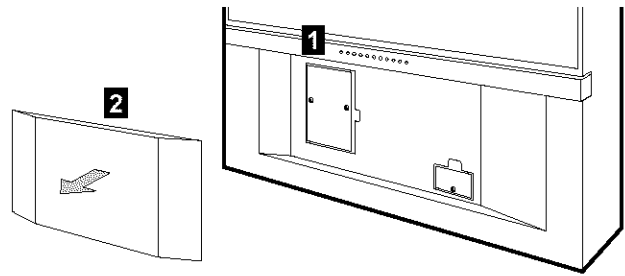


Figure 1. Removing the front cover.

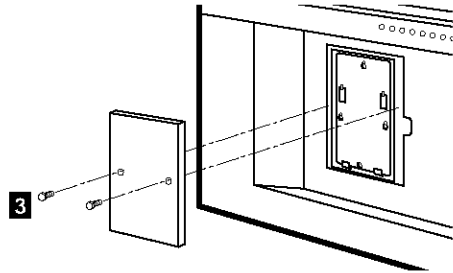


Figure 2. Removing the wooden lamp cover.

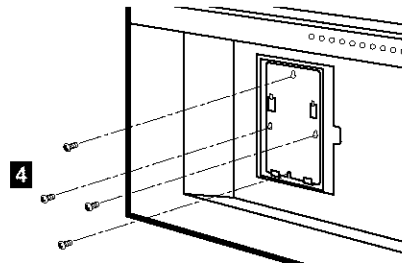


Figure 3. Loosen the screws of the wooden lamp cover.

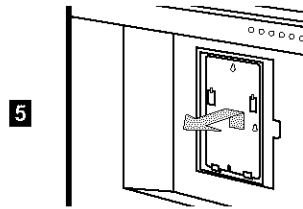


Figure 4. Removing the metal lamp cover.

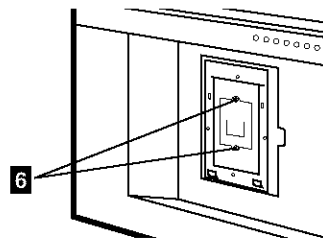


Figure 5. Loosen the screws of the lamp cartridge.

- 7 Pull up the handle and remove the lamp cartridge in the direction of the arrow as indicated. See figure 6.

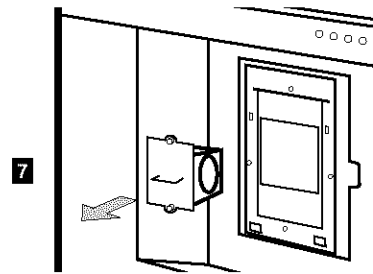


Figure 6. Removing the lamp cartridge.

- 8 Insert the new lamp cartridge securely into the TV body as shown in figure 7.

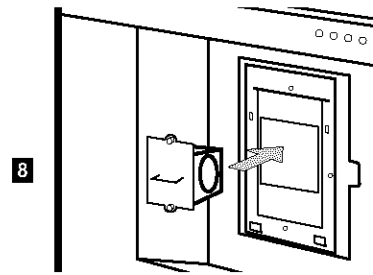


Figure 7. Inserting the new lamp cartridge.

- 9 Tighten up the screws (c). See figure 5.

- 10 Replace the metal lamp cover in the direction of the arrow as indicated. See figure 8.

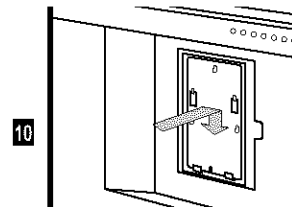


Figure 8. Replacing the metal lamp cover.

- 11 Tighten up the screws (b). See figure 3.

- 12 Replace the wooden lamp cover and tighten up the screws (a). See figure 2.

- 13 Replace the front cover. See figure 9.

- 14 Plug the power cord to the outlet, if necessary, and press the power button to power on.

The message “Did you change the lamp? Press 1 for Yes. Press 0 for No.”

- 15 Press the number 1 button on the remote control for reset the Lamp Elapsed time.

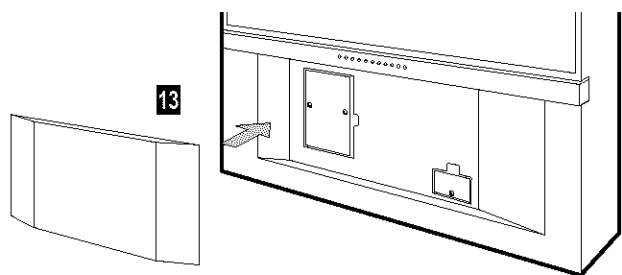


Figure 9. Replacing the front cover.

IMPORTANT

- When you replace the lamp, you must reset the Lamp Elapsed time. The TV's display will prompt you (see #14 above).
- The power will not turn on if the lamp cover is improperly installed.



Filter cleaning

When the inside temperature is extremely high, the message “Warning! TV will shut down in a few seconds. Please check that air filter is clean and airflow is not blocked” will appear on the screen for 15 seconds and shut off. In this case, please inspect the filter, and if necessary, clean the air-filter.

Cleaning the air-filter

1 Press the power button to turn off the TV.

2 Remove the front cover in the direction of the arrow as indicated. See figure 1.

3 Loosen the wing nuts on the wooden filter cover and remove. See figure 2.

4 Loosen the screw of the filter tray. See figure 3.

5 Remove the filter tray. See figure 4.

IMPORTANT

→ Be sure to turn off the TV and unplug the power cord from the wall outlet before you perform any maintenance on the TV.

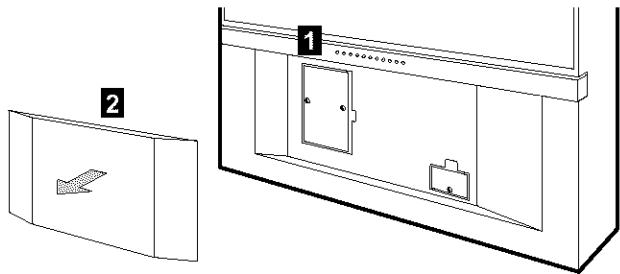


Figure 1. Removing the front cover.

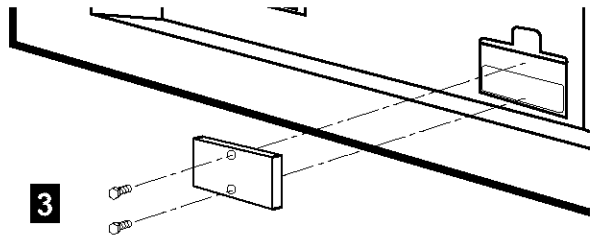


Figure 2. Removing the wooden filter cover.

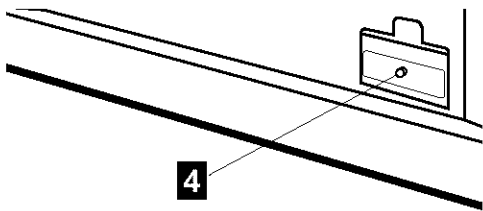


Figure 3. Loosening the screws of the filter tray.

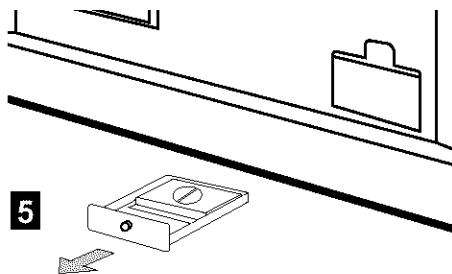


Figure 4. Removing the filter tray.

- 6 Remove the dust from the air-filter by using a vacuum cleaner.

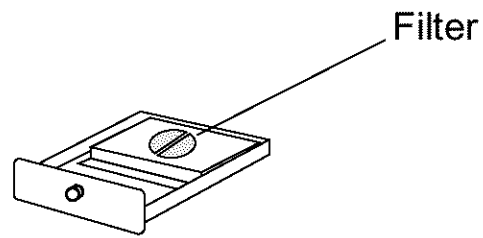


Figure 5 Air-filter

- 7 Replace the filter tray in the direction of the arrow as indicated. See figure 6.

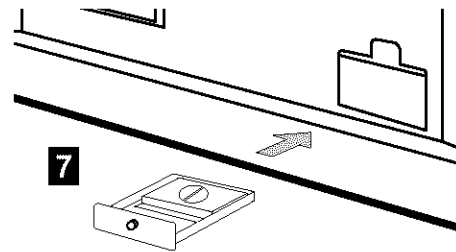


Figure 6 Replacing the filter tray.

- 8 Tighten up the screw. See figure 3.

- 9 Replace the wooden filter cover and tighten up the wing nuts. See figure 2.

- 10 Replace the front cover. See figure 7.

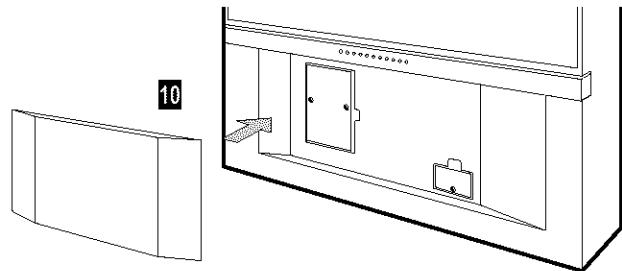


Figure 7. Replacing the front cover.

IMPORTANT

- If the filter is damaged or becomes extremely dirty, contact your dealer for replacement.
- The power will not turn on if the air-filter cover is improperly installed.





Cleaning

Normally, light dusting with a dry, non-scratching duster will keep your TV clean. Use care when cleaning your TV with any other product. If you want to gently wipe down your TV with a lightly moistened soft cloth, first turn off and unplug your TV. You can add a few drops of mild liquid detergent to the water for oily dirt.

DO NOT allow liquid to enter the TV through the ventilation slots.

DO NOT use strong or abrasive cleaners.

DO NOT use spray liquids or cleaners directly on the TV's surface.

DO NOT scrub or rub the TV harshly.

When cleaning the screen behind the Diamond Shield™, wipe GENTLY up and down with the grooves. Do not allow any liquid to drip down the screen into the TV.

IMPORTANT

→ DO NOT use any kind of abrasive, liquid, or spray cleaner on the surface of the TV screen.

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 this Owner's Guide.
- ➔ DO NOT remove the protective back cover of your TV.

Menus not described and shown in this owner's guide are designed for Factory use and for Authorized Service Personnel. If you see a menu or display not described in this owner's guide, make no changes to the settings, turn off the TV to clear the displays and return to normal operation. Non-authorized changes and changes made by non-authorized persons may void all or part of the warranty.

IMPORTANT

→ For further assistance, please call
(800) 332-2119



Problem	Possible Solution
<ul style="list-style-type: none"> The TV does not power on. 	<ul style="list-style-type: none"> Check that the power cord is connected correctly. The lamp may be burned-out. The lamp cover or filter cover may not be properly closed.
<ul style="list-style-type: none"> The TV remote control does not work. 	<ul style="list-style-type: none"> Check that the batteries are installed correctly. Check that the selected switch is set to "TV". Be no further than 20 feet from the TV when using the remote control.
<ul style="list-style-type: none"> The TV takes several seconds to respond to channel commands. 	<ul style="list-style-type: none"> Press ENTER after a channel number to avoid delays. Use the three digit number, i.e. 002 for channel 2.
<ul style="list-style-type: none"> You cannot access a channel. 	<ul style="list-style-type: none"> Use number keys instead of CHANNEL up/down. Be sure the channel you want to view is in memory. Check that the TV is turned to the correct input source for that channel, by pressing the INPUT button. Make sure the V-Chip lock is off (page 36).
<ul style="list-style-type: none"> On-screen displays appear each time you change a function. 	<ul style="list-style-type: none"> This is part of normal TV operation.
<ul style="list-style-type: none"> You cannot program the TV to turn on automatically. 	<ul style="list-style-type: none"> The TV may be locked. The clock may not be set.
<ul style="list-style-type: none"> There is no sound even when the volume is turned up. 	<ul style="list-style-type: none"> Check to see if the MUTE button is on. The TV's "Listen to:" setting may be set to SAP. Check that "TV Speakers" setting is ON.
<ul style="list-style-type: none"> You have forgotten your parent lock passcode. 	<ul style="list-style-type: none"> See <i>Appendix A, Bypassing the V-Chip Lock</i>, page 57.
<ul style="list-style-type: none"> PIP does not display a picture. 	<ul style="list-style-type: none"> Make sure the V-Chip lock is off (page 36). Not all inputs can be displayed as a PIP (page 14). External picture source equipment is not turned on.
<ul style="list-style-type: none"> The sound does not match the screen picture. 	<ul style="list-style-type: none"> The TV's "Listen to:" setting may be set to SAP. If using stereo or A/V receiver speakers, check input selection on the stereo or A/V receiver. If using stereo or A/V receiver, check that AUDIO is from MONITOR OUTPUT on TV's back panel.
<ul style="list-style-type: none"> There is a large black or gray rectangle on the screen. 	<ul style="list-style-type: none"> The TV closed captioning has been set to "text" mode, but there is no text information being broadcast. Turn Off in the CAPTIONS menu (page 34).
<ul style="list-style-type: none"> You cannot see a picture when you play a VCR tape. 	<ul style="list-style-type: none"> If you connected your VCR with A/V cables, use the INPUT button to select the input source (INPUT-1, INPUT-2, INPUT-3, INPUT-4, or INPUT-5) that the VCR is connected to. Check your VCR's owner's guide for further troubleshooting.



Problem	Possible Solution
<ul style="list-style-type: none">V-Chip Lock is not working	<ul style="list-style-type: none">Make sure that V-Chip is On (page 40).If V-Chip Hours/Lock by Time is currently set to disable the V-Chip lock, the V-Chip will not block programing.
<ul style="list-style-type: none">The message "Did you change the lamp? Press 1 for Yes. Press 0 for No." appears on the screen.	<ul style="list-style-type: none">When turning ON the power after unplugging the power cord or opening the lamp cover. If you replaced the lamp, press number 1 button on the remote control. If you did not replace the lamp, press number 0 button on the remote control or wait for 30 seconds.

A

Adaptors (BNC to RCA)	20
Advanced menu	32, 39
Antennas	13, 16, 17
Artifacts (Image Type)	45
Assistance	6, 66
Audio Settings	44

B

Back Panel	13
Balance	44
Bass	44
Black Enhancement	40
Bypassing	57

C

Cleaning	4, 66
Cleaning (filter)	64
Clock (setting)	43
Compatibility	59
Contrast	45

D

Date (setting)	43
Daylight Savings Time (DST)	43
Dusting	66

E

Español	33
EXCH button on remote	48, 53

F

Filter cleaning	64
Formats (display)	54
Front Control Panel	12

H

Home Theater IR System connection	22
--	----

I

Important Safeguards	4
Installing batteries	49

L

Lamp replacement	61
Language	33
Level Sound	44
Listen to	44
Locked	38, 57

M

Maintenance	64
Memorize channels	33
Mitsubishi Limited Warranty	71

N

Naming channels	35
Naming inputs	33

P

Passcode	36, 57
Picture-in-Picture (PIP) Operation	52
Picture-outside-Picture (POP) Operation	52
Programming	33
Programming codes	26, 27, 60

R

Remote control	
care and operation	49
channel selection	50
settings	
audio	44
video	45
Replacement	
lamp	61
Reset (A/V Memory)	41

S

Safeguards	4, 5
Servicing	2, 5
Signal types	59
Sleep Timer	50
Sound (adjusting)	44
Spanish	31, 33
Special Functions	52
SQV (Super Quick View™)	35
Stand	4
Standard Picture (4:3)	55
Surface	4, 66
Surges	5
Surround	44

T

Time (setting)	43
Timer (Sleep)	50
Timer (turn TV on)	39
Treble	44
Troubleshooting	67
TV Speakers	42

U

Unpacking	9
Upgradeable	9

V

V-Chip Lock	36
bypassing	57
entry to	36
hours/lock by time	38
passcode setting	36
ratings and categories	37
signal information	36
Ventilation	4, 66
Video Settings	45

W

Warning	23
---------------	----

**MITSUBISHI
DLP 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 lenticular (i. e. front picture) screen and/or the DiamondShield™ is warranted against defects in materials and workmanship for a period of 30 days. The UHP lamp is warranted for a period of 90 days from the date of purchase at retail or 2000 hours of use, whichever condition occurs first. All other parts 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 are warranted for the remainder of the original warranty period.

b. **Labor.** For 30 days after the original purchase at retail, we will repair or replace, at our option, the lenticular screen if it proves defective. 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 or purchase at retail. 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.

c. **Notice.** To obtain warranty service, you must notify an authorized MITSUBISHI service center of any defect within the applicable warranty time period.

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 damage caused by: modification, alteration, repair or service of the product by anyone other than an authorized MITSUBISHI service center; physical abuse to, or misuse of, the product ;operation in a manner contrary to the instructions which accompany the product, freight damage; or any damage caused by acts of God such as lightning or fluctuation in electrical power. This warranty also excludes all costs arising from installation, adjustment of user controls, external antenna systems, service of products purchased or service outside the U. S. A., initial technical adjustments (set-up) and user-required maintenance. Consult the operating instructions furnished with the product for information regarding user controls.

3. ANY EXPRESS WARRANTY NOT PROVIDED HEREIN, AND ANY REMEDY WHICH, BUT FOR THIS PROVISION, MIGHT ARISE BY IMPLICATION OR OPERATION OF LAW, IS HEREBY EXCLUDED AND DISCLAIMED. THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR ANY PARTICULAR PURPOSE ARE EXPRESSLY LIMITED TO A TERM OF ONE YEAR.

4. UNDER NO CIRCUMSTANCES SHALL MDEA BE LIABLE TO PURCHASER OR ANY OTHER PERSON FOR ANY INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES, WHETHER ARISING OUT OF BREACH OF WARRANTY, BREACH OF CONTRACT, OR OTHERWISE.

5. Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental, special or consequential damages, so the above limitations or exclusions may not apply to you.

6. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

7. BEFORE REQUESTING SERVICE, please review the instruction booklet to insure proper installation and correct customer control adjustment. If the problem persists, contact your nearest MITSUBISHI Dealer for the name(s) of authorized MITSUBISHI Service Center(s). If you are unable to obtain this information, please call (800) 332-2119, or write us at the address below.

MITSUBISHI DIGITAL ELECTRONICS AMERICA, INC.
9351 Jeronimo Road
Irvine, CA 92618-1904



RETAIN THIS PORTION FOR YOUR RECORDS

SERIAL NO. _____

MODEL NO. _____

DEALER NAME _____

STREET ADDRESS _____

CITY _____ STATE _____ ZIP _____

PHONE (_____) _____ PURCHASE DATE _____

Mitsubishi Projection TV Limited Warranty

ital

If you have questions regarding your television, call Consumer Relations at (800) 332-2119, or email us at MDEAservice@bigscreen.mea.com

To order replacement or additional remote controls or owner's guides call (800) 553-7278

or

visit our website at www.mitsubishi-tv.com