

Model Number:

Serial Number:

LCT1885-001A-A 0705JGI-II-IM

Important Safety Precautions







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 to persons.

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

WARNING: TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS TV SET TO RAIN OR MOISTURE.

CAUTION: TO INSURE PERSONAL SAFETY, OBSERVE THE FOLLOWING RULES REGARDING THE USE OF THIS UNIT.

- 1. Operate only from the power source specified on the unit.
- 2. Avoid damaging the AC plug and power cord.
- 3. Avoid Improper installation and never position the unit where good ventilation is unattainable.
- 4. Do not allow objects or liquid into the cabinet openings.
- 5. In the event of trouble, unplug the unit and call a service technician. Do not attempt to repair it yourself or remove the rear cover.

Changes or modifications not approved by JVC could void the warranty.

- * When you don't use this TV set for a long period of time, be sure to disconnect both the power plug from the AC outlet and antenna for your safety.
- * To prevent electric shock do not use this polarized plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

IMPORTANT RECYCLING INFORMATION

This product utilizes both a Cathode Ray Tube (CRT) and other components that contain lead. Disposal of these materials may be regulated in your community due to environmental considerations. For disposal or recycling information, please contact your local authorities, or the Electronic Industries Alliance: http://www.eiae.org



 As an "ENERGY STAR[®]" partner, JVC has determined that this product or product model meets the "ENERGY STAR[®]" guidelines for energy efficiency.

Important Safeguards

CAUTION:

Please read and retain for your safety.

Electrical energy can perform many useful functions. This TV set has been engineered and manufactured to assure your personal safety. But **improper use can result in potential electrical shock or fire hazards**. In order not to defeat the safeguards incorporated in this TV set, observe the following basic rules for its installation, use and servicing. Also follow all warnings and instructions marked on your TV set.

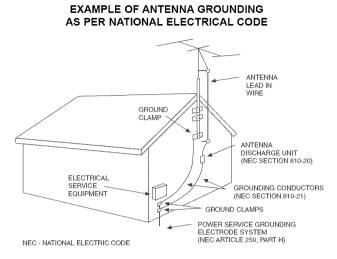
INSTALLATION

1 Your TV set is equipped with a polarized AC line plug (one blade of the plug is wider than the other). This safety feature allows the plug to fit into the power outlet only one way. Should you be unable to insert the plug fully into the outlet, try reversing the plug. Should it still fail to fit, contact your electrician.



- 2 Operate the TV set only from a power source as indicated on the TV set or refer to the operating instructions for this information. If you are not sure of the type of power supply to your home, consult your TV set dealer or local power company. For battery operation, refer to the operating instructions.
- **3** Overloaded AC outlets and extension cords are dangerous, and so are frayed power cords and broken plugs. They may result in a shock or fire hazard. Call your service technician for replacement.
- 4 Do not allow anything to rest on or roll over the power cord, and do not place the TV set where power cord is subject to traffic or abuse. This may result in a shock or fire hazard.
- 5 Do not use this TV set near water for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near swimming pool, etc.
- 6 If an outside antenna is connected to the TV set, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code 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 requirements for the grounding electrode.

7 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.



8 TV sets are provided with ventilation openings in the cabinet to allow heat generated during operation to be released.

Therefore:

- Never block the bottom ventilation slots of a portable TV set by placing it on a bed, sofa, rug, etc.
- Never place a TV set in a "built-in" enclosure unless proper ventilation is provided.
- Never cover the openings with a cloth or other material.
- Never place the TV set near or over a radiator or heat register.
- 9 To avoid personal injury:
 - Do not place a TV set on a sloping shelf unless properly secured.
 - Use only a cart or stand recommended by the TV set manufacturer.
 - Do not try to roll a cart with small casters across thresholds or deep pile carpets.
 - Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.

Use

- **10** Caution children about dropping or pushing objects into the TV set through cabinet openings. Some internal parts carry hazardous voltages and contact can result in a fire or electrical shock.
- **11** Unplug the TV set from the wall outlet before cleaning. Do not use liquid or an aerosol cleaner.
- 12 Never add accessories to a TV set that has not been designed for this purpose. Such additions may result in a hazard.



PORTABLE CART WARNING (Symbol provided by RETAC)

- 13 For added protection of the TV set during a lightning storm or when the TV set is to be left unattended for an extended period of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to product due to lightning storms or power line surges.
- 14 A TV set and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the TV set and cart combination to overturn.

Service

- **15** Unplug this TV set from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - A. When the power cord or plug is damaged or frayed.
 - B. If liquid has been spilled into the TV set.
 - C. If the TV set has been exposed to rain or water.
 - D. If the TV set does not operate normally by following the operating instructions. Adjust only those controls that are covered in the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the TV set to normal operation.
 - E. If the TV set has been dropped or damaged in any way.
 - F. When the TV set exhibits a distinct change in performance this indicates a need for service.
- **16** Do not attempt to service this TV set yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- 17 When replacement parts are required, have the service technician verify in writing that the replacement parts he uses have the same safety characteristics as the original parts. Use of manufacturer's specified replacement parts can prevent fire, shock, or other hazards.
- **18** Upon completion of any service or repairs to this TV set, please ask the service technician to perform the safety check described in the manufacturer's service literature.
- **19** When a TV set reaches the end of its useful life, improper disposal could result in a picture tube implosion. Ask a qualified service technician to dispose of the TV set.
- 20 Note to CATV system installer. This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for 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.

Warnings

Screen Burn-in

Displaying fixed images on your screen for extended periods of time can leave a subtle but permanent ghost image in your screen. This is referred to as "burn-in". To avoid this, mix your viewing patterns and aspect modes from time to time.

Examples include, but are not limited to the following:

- · Stock-market report bars
- · Shopping channel logos and pricing displays
- · Video game patterns or scoreboards
- · Bright station logos
- Internet web sites or other computer-style images.
- DVD discs, video tapes, laser discs
- Broadcast, cable, satellite channels or digital television tuners/converters.
- Aspect modes that leave solid black bars on the top and bottom, or both sides of the screen.

Note: Warranty **DOES NOT** cover screen burn-in or uneven picture tube aging.

For example...



TV off







Caring for the Cabinet

Normally, light dusting with a soft, non-scratching duster will keep your TV clean.

If you wish to wipe down the television, first unplug it. Then wipe gently with a soft cloth, slightly moistened with water. You can add a few drops of mild liquid detergent to the water to help remove spots of oily dirt.

- · DO NOT allow liquid to enter the TV through the ventilation slots.
- · DO NOT use strong or abrasive cleaners on the TV.
- · DO NOT spray liquids or cleaners directly on the TV's surface.
- · DO NOT rub or scrub the TV harshly. Wipe the set gently with a soft cloth.

Caring for the Screen

The screen is treated with an electrostatic-proof coating. When it gets dirty, wipe it gently with a soft cloth. If the screen is very dirty, wipe it down with a cloth dipped in a diluted kitchen cleaner and thoroughly wrung-out. Then wipe immediately after with a clean, dry cloth.

Do not apply alcohol, organic solvents (like acetone), acidic or alkaline cleansers to the screen. These will remove the coating layer and cause discolorations.

Do not push or hit the screen. This could cause scratches on the screen surface and image distortions.

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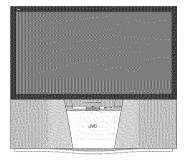
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Quick Setup Unpacking your TV

Thank you for your purchase of a JVC Color Television. Before you begin setting up your new television, please check to make sure you have all of the following items. In addition to this guide, your television box should include:



1 Television

1 Remote Control



Two AA Batteries



Note: Your television and/or remote control may differ from the examples illustrated here.

Quick Setup

Unpacking your TV

Once you have unpacked your television, the next step is to connect it to your antenna/ cable or satellite system and to connect the audio/video devices you want to use with your television. To make these connections you will use plugs like the ones illustrated below.

Coaxial Cables



Used to connect an external antenna or cable TV system to your TV.

S-Video Cable



Used to make video connections with S-Video VCRs, Camcorders and DVD players.

Component Cables Composite Cables Audio Cables

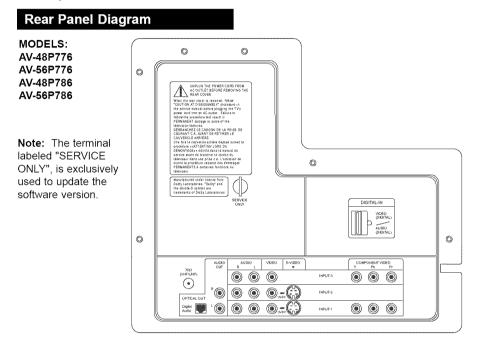
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Used to connect audio/ video devices like VCRs, DVD players, stereo amplifiers, game consoles, etc.

We recommend that before you start using your new television, you read your entire User's Guide so you can learn about your new television's many great features. If you're anxious to start using your television right away, a quick setup guide follows on the next few pages.

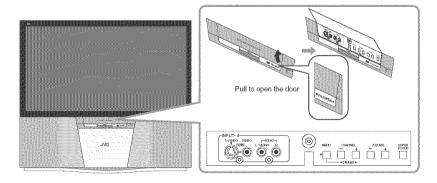
NOTE: Before you connect your television to another device, please refer to the proper diagrams for your specific TV and remote. These will help assist you in understanding how to connect your television to another device, as well as use the remote to set up your television.

TV Models



Front Panel Diagram

Quick Setup



MODELS: AV-48P776, AV-56P776, AV-48P786, AV-56P786

Quick Setup

TV Remote Control

TV CATV VCR (0)(0) POWER (000) (T) (ÍÍ) INPLIT SLEEP TIMER DISPLAY C.C. 0/A THEATER PRO $\sqrt{1}$ 2 3 VIDEO STATUS S 5 ×4 \6 ASPECT $\mathbf{\gamma}$ 8 9 RETURN+ SUS CH TUME Q, FAVORITE MUMTS SOUND GUIDE MUTING A OK CH+ VOL VOL 4 CH-MENU BACK -)c(+) (**) REW PLAY FF OREC 1 STOP EPAUSE AOPEN/CLOSE STREPAUSE JVC RM-012706 ΤV RM-C1270G

- · For information on remote control buttons, see pages 58 66.
- SUB CHANNEL and GUIDE buttons are for digital channels. If your TV is connected to an ATSC antenna or Digital Cable, you can use these buttons.

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Quick Setup

Getting Started

These quick setup pages will provide you, in three easy steps, with the basic information you need to begin using your new television right away.

If you have questions, or for more detailed information on any of these steps, please consult other sections of this manual.

Step 1 – The Remote Control

Before you can operate your remote control, you first need to install the batteries (included).

Lift and pull the latch on the back of the remote control to open. Insert two batteries (included) carefully noting the "+" and "-" markings, placing the "-" end in the unit first. Snap the cover back into place.

When you change the batteries, try to complete the task within three minutes. If you take longer than

three minutes, the remote control codes for your VCR, DVD, and/or cable box/satellite receiver may have to be reset. See pages 26 - 29.

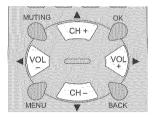
Key Feature Buttons

The four key feature buttons at the center of the remote can be used for basic operation of the television. The top and bottom buttons will scan forward and back through the available channels. To move rapidly through the channels using JVC's **Hyperscan** feature, press and hold CH+ or CH–. The channels will zip by at a rate of five channels per second. The right and left buttons will turn the volume up or down. These buttons are also marked with four arrows and are used with JVC's onscreen menu system. To use the onscreen menus, press the MENU button.

Basic Operation

Turn the television on and off by pressing the POWER button at the top right corner of the remote. If this is the first time you are turning on the TV, the interactive plug-in menu appears.

- Make sure the TV/CATV switch is set to TV. Move the switch to CATV only if you need to operate a cable box.
- Slide the VCR/DVD selector switch to VCR to control a VCR. Slide to DVD to control a DVD player. Please see pages 26 to 29 for instructions on programming your remote control to operate a cable box, VCR or DVD player.

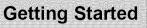










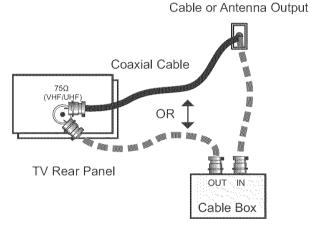


Step 2 – Connecting Your Devices

Notes:

- · These connections are examples.
- After you are finished connecting your devices, plug the power cord into the nearest power outlet and turn on the TV.
- To connect a DVD player, see VCR Connection. A DVD player is optional
- If you have a satellite television system, refer to the satellite TV manual.

No VCR Connection



Note:

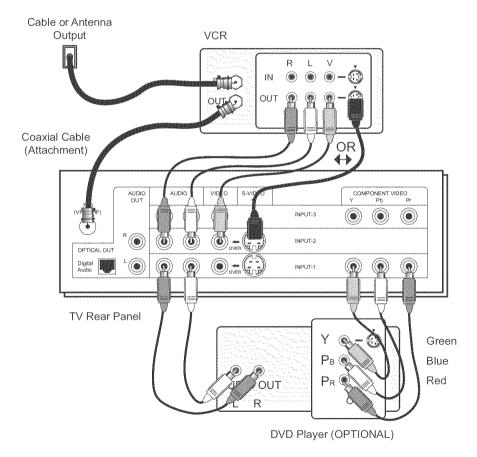
• If you do not have a cable box, connect the cable wire from the wall outlet into the back of the TV.

VCR Connection

Notes:

- Green, blue and red are the most common colors for DVD cables. Some models may vary colors. Please consult the user's manual for your DVD player for more information.
- Be careful not to confuse the red DVD cable with the red audio cable. It is best to complete
 one set of connections (DVD or audio output) before starting the other to avoid accidentally
 switching the cables.
- You may also connect the DVD player to Input 1.

Diagram #1

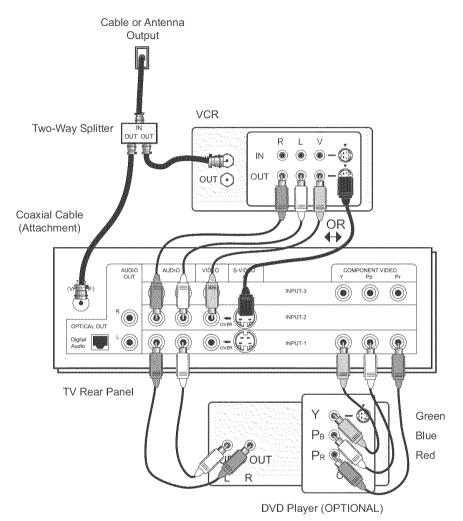


Note:

• If this connection setup does not work for you, try the connection setup on page 16.

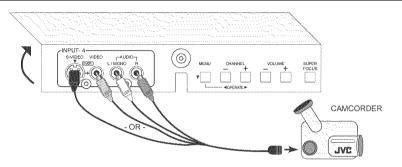


Diagram #2



Connecting to a Camcorder

You may connect a camcorder, game console or other equipment to your television by using the front input jacks (Input 4) located under the front panel door. To access, pull on the door to open it. You can also connect these using the television's rear input jacks, using the same instructions.



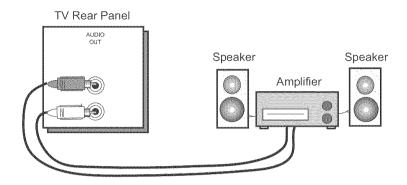
- 1) Connect a yellow composite cable from the camcorder VIDEO OUT, into the VIDEO IN on the front of the TV, **OR** connect an S-Video cable from the front of the TV to the camcorder.
- 2) Connect a white cable from the camcorder LEFT AUDIO OUT, into the LEFT AUDIO IN on the front of the TV.
- 3) Connect a red cable from the camcorder RIGHT AUDIO OUT, into the RIGHT AUDIO IN on the front of the TV.

Note:

 If your camcorder is a mono sound model it will have only one AUDIO OUT. Connect it to the L/MONO on the front of the TV.

Connecting to an External Amplifier

Quick Setup



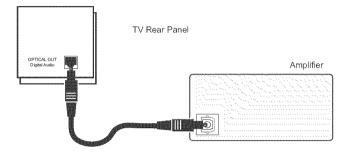
- 1) Connect a white cable from the LEFT AUDIO OUTPUT on the back of the TV to the LEFT AUDIO INPUT on the amplifier.
- 2) Connect a red cable from the RIGHT AUDIO OUTPUT on the back of the TV to the RIGHT AUDIO INPUT on the amplifier.

- · Refer to your amplifier's manual for more information.
- You can use AUDIO OUTPUT for your home theater system.

Quick Setup Connections

Connecting to an amplifier using your optical output

You can connect an amplifier that has an optical digital input terminal by using an optical digital cable from the optical output. The signal that is output can be PCM or Dolby Digital.



1) Connect the optical cable from the back of the TV to the back of the amplifier.

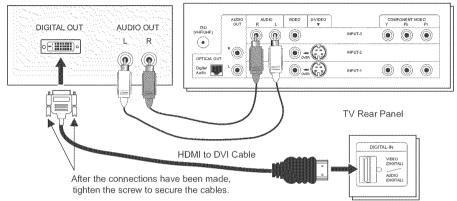
- · This terminal can only output digital audio.
- In order to use the optical output connection, select PCM or Dolby Digital on Digital Sound in the Digital Setup Menu. See page 68.
- · Refer to your owners manual on using your amplifier.

Connecting to a Digital TV Receiver

By connecting a Digital TV Reciever, high definition pictures can be displayed on your TV in their digital form.

DTV Decoder

Quick Setup



- 1) Connect the HDMI to DVI Cable from the DIGITAL OUT on the back of your DTV decoder, to the DIGITAL-IN on the back of your television.
- Connect a red cable from the DTV decoder RIGHT AUDIO OUT, to the RIGHT AUDIO IN into VIDEO-3 on the back of your television.
- 3) Connect a white cable from the DTV decoder LEFT AUDIO OUT, to the LEFT AUDIO IN into VIDEO-3 on the back of your television.
- · The digital-in terminal is not compatible with the picture signal of a personal computer.
- Use a HDMI to DVI cable (commercially available) in order to digitally connect the television
 with a DTV decoder.

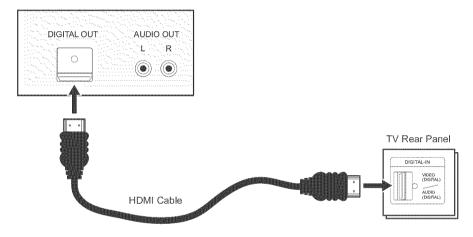
- If 480p signals (640x480 or 720x480) are displayed on the screen, the horizontal balance may be slightly shifted. Access the "DIGITAL-IN" in the initial setup menu to adjust it. (Refer to page 52.)
- When you do the above connection, set DIGITAL-IN AUDIO in the Initial Setup menu to ANALOG. See "DIGITAL-IN AUDIO", page 52.

Connecting to a HDMI Compatible Device

By connecting a HDMI compatible device, high definition pictures can be displayed on your TV in their digital form. Some HDMI devices can include DVD players, D-VHS or any HDMI compatible device.

HDMI (High Definition Multimedia Interface) is the first industry supported, uncompressed, all digital audio/video interface. HDMI provides and interface between any audio/video source, such as a set-top box, DVD player, A/V receiver or an audio and/or video monitor, such as a digital television (DTV).

HDMI Compatible Device

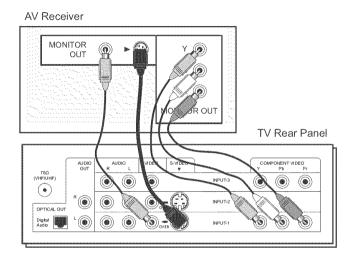


1) Connect the HDMI Cable from the DIGITAL OUT on the back of your DTV or HDMI device, to the DIGITAL-IN on the back of your television.

- When you do the above connection, set DIGITAL-IN AUDIO in the Initial Setup menu to DIGITAL. See "DIGITAL-IN AUDIO", page 52.
- Some decoders may not respond depending on the equipment that you have connected when it is connected to the HDMI.
- If the HDMI output device signal is changed (for example, 480i/60Hz is changed to 480p/60Hz), the screen may turn green and there may be some distortion for a short time until the signal becomes stable.

Connecting to an AV Receiver using your television's V1 Smart Input

By connecting your AV Receiver to your television's V1 Smart Input, you can watch picture sources from many different devices, without having to change or use the other input connections on your TV. This allows you to free up the other input connections so you can connect more devices to your television.



- 1) Connect an S-Video Cable from the AV Receiver's MONITOR OUT, to the S-Video INPUT-1 on the back of your television.
- Connect a Yellow Composite Cable from the AV Receiver's MONITOR OUT, into the VIDEO INPUT-1 on the back of your television.
- Connect a Green Component Cable from the AV Receiver's Y MONITOR OUT, into the Y VIDEO INPUT-1 on the back of your television.
- 4) Connect a Blue Component Cable from the AV Receiver's PB MONITOR OUT, into the Pb VIDEO INPUT-1 on the back of your television.
- 5) Connect a Red Component Cable from the AV Receiver's PR MONITOR OUT, into the Pr VIDEO INPUT-1 on the back of your television.

- Please refer to your AV Receiver instruction manual for more information on connecting your speakers and other devices like a DVD player.
- · Use your AV Receiver's remote to switch to the different devices you have connected.
- Some AV Receivers may not respond when the V1 Smart Input function is turned on.
- If you have video connections for each input device connected to your AV Receiver, you should not connect them using both S-Video and Composite connection at the same time when you are using V1 Input as the V1 Smart Input. In this case we recommend using the S-Video connection.

Step 3 – The Interactive Plug In Menu

When you turn your television on for the first time the interactive plug-in menu will appear. The plug-in menu helps you to get your TV ready to use by letting you set your preferences for:

- The language in which you want the onscreen menus to appear.
- Setting the TV's clock to the correct time so your timer functions will work properly. You can choose "AUTO" or "MANUAL" for setting the clock.
- The auto tuner setup of which channels you wish to receive.

We recommend you complete the interactive plug-in items before you start using your television.

Notes:

- The interactive plug-in menu setting does not appear if your TV has been turned on before. In this case use the onscreen menus to perform these settings. See pages 45, 56 and 33.
- · If you press the Menu button while setting up the interactive plug-in menu, it will skip over it.

Language

After the "JVC INTERACTIVE PLUG IN MENU" has been displayed, the TV automatically switches to the LANGUAGE settings. You can choose to view your onscreen menus in three languages: English, French (Français) or Spanish (Español).

4 b

LANGUAGE/LANGUE/IDIOMA			
(ENGLISH)			
* NEXT \$SELECT * OPERATE	MEND	E>	at

- To choose a language: (English, Français or Español)
- To NEXT (To set clock)

(To be continued...)

Plug-In Menu

Auto Clock Set

Quick Setup

Before you use any of your TV's timer functions, you must first set the clock. You may precisely set your clock using the XDS time signal broadcast by most public analog broadcasting stations. If you do not have this in your area, you will have to set the clock manually. See manual clock set below. To set the clock using the XDS signal:

SET CLOCK	▲ To choose AUTO▼ To TIME ZONE
	◀► To select your time zone: (Atlantic, Easterr Central, Mountain, Pacific, Alaska or Hawaii)
TIME ZONE (ATLANTIC) D.S.T. (ON)	 ▼ To move to D.S.T. (Daylight Savings Time) ■ To turn D.S.T. ON or OFF ▼ To NEXT (To Auto Tuner Setup)
\$SELECT ** OPERATE **** EXIT	

Notes:

- D.S.T. can be used when it is set to ON in the SET CLOCK menu.
- Only when the MODE is set to AUTO, the Daylight Savings Time feature automatically adjusts your TV's clock for Daylight Savings. The clock will move forward one hour at 2:00 am on the first Sunday in April. The clock will move back one hour at 2:00 am on the last Sunday in October.
- You will have to reset the clock after a power interruption. You must set the clock before
 operating any timer functions.

Manual Clock Set

To set your clock manually (without using the XDS signal), choose MANUAL. If you choose AUTO, see auto clock set above.

ODE (M/ ME	ANUAL
ME;	
ME ZONE (ATL	ANTIC
S.T.	(ON

- To choose MANUAL
- To TIME
- To set the hour
- To minute
- To set the minute
- To TIME ZONE
- To select your time zone: (Atlantic, Eastern, Central, Mountain, Pacific, Alaska or Hawaii)
- To move to D.S.T. (Daylight Savings Time)
- To turn D.S.T. ON or OFF
 - To START CLOCK

Note:

• You will have to reset the clock after a power interruption. You must set the clock before operating any timer functions.



Auto Tuner Setup

In auto tuner setup, the TV automatically scans through all available channels, memorizing the active ones and skipping over blank ones or channels with weak signals. This means when you scan (using the CHANNEL +/– buttons) you will receive only clear, active channels.

AUTO TUNER SETUP	To choose CABLE or AIR (or SKIP when you skip AUTO TUNER SETUP)
TUNER MODE	▼ To START
▼ START	After Analog Auto Tuner Setup is finished, Digital Auto Tuner Setup starts.
\$SELECT ** OPERATE **** EXIT	
	→ Now Programming

When the setup is finished, "THANK YOU ! SETUP IS NOW COMPLETE" is displayed. Your quick setup is now complete. You can now begin watching your television, or you can continue on in this guide for more information on programming your remote control, or using the JVC onscreen menu system to customize your television viewing experience.

Notes:

- · If you want to cancel the Auto Tuner Setup, press the MENU button.
- · Noise muting will not work during Auto Tuner Setup.

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• If you choose SKIP, it finished without doing the Auto Tuner Setup.

Cable Box and Satellite Users: After your auto tuner setup is complete, you may, (depending on the type of hookup), have only 1 channel, usually 3 or 4 in the auto tuner memory. This is normal.



The Quick Setup is complete

Setting the CATV, VCR and DVD Codes

You can program your remote to operate your cable box, satellite receiver, VCR or DVD player by using the instructions and codes listed below. If the equipment does not respond to any of the codes listed below or to the code search function, use the remote control supplied by the manufacturer.

Cable Box or Satellite Codes

The remote control is programmed with cable box and satellite codes for power on/off, channel up/down, and 10 key operation.

- 1) Find the cable box or satellite brand from the list of codes shown below.
- 2) Slide the 2-way selector switch to "CATV".
- Press and hold down the DISPLAY button, then enter the first code number listed with the 10 key pad.
- 4) Release the DISPLAY button, and confirm the operation of the cable box/satellite receiver.
- If your cable or satellite box does not respond to the first code, try the others listed. If it does not respond to any code, try the search codes function, on page 29.

Cable Box	CODES	Cable Box	CODES	Digital	CODES
ABC	024	Puser	032	Satellite Systems	
Archer	032, 025	RCA	061, 070	Echostar	100, 113, 114,
Cableview	051, 032	Realistic	032	Lonoatai	115
Citizen	022, 051	Regal	058, 064, 040,	Express VU	100, 113
Curtis	058, 059		041, 042, 045, 068	G.E.	106
Diamond	024, 032, 025	Regency	034	G.I.	108
Eagle	029	Rembrandt	037, 032, 051,		
Eastern	034		038	Gradiente	112
GC Brand	032, 051	Samsung	051	Hitachi	104, 111
Gemini	022, 043	Scientific Atlanta	057, 058, 059	HNS (Hughes)	104
General Instrument	065, 024, 025, 026, 027, 020,	SLMark	051, 047	Panasonic	105
00000	021, 022, 057,	Sprucer	051, 056	Philips	102, 103
Hamlin	023 040, 041, 042,	Stargate	032, 051	Primestar	108
namin	040, 041, 042, 045, 058, 064	Telecaption	067	Proscan	106, 109, 110
Hitachi	049, 024	Teleview	047, 051	RCA	106, 109, 110
Jerrold	065, 024, 025,	Texscan	044	Sony	107
100000 da	026, 027, 020, 021, 022, 057, 023	Tocom	035, 036, 066	Star Choice	104, 108
	023	Toshiba	050	Toshiba	101
Macom	049, 050, 051, 054	Unika	032, 025	Uniden	102, 103
Magnavox	033	Universal	022, 032		
Memorex	030	Videoway	052		
Movietime	032, 051	Viewstar	029, 030		
Oak	039, 037, 048	Zenith	063, 046		
Panasonic	055, 056, 060, 071, 073	Zenith/Drake Satellite	046		
Paragon	063				
Philips	028, 029, 030, 052, 053, 031, 069				
Pioneer	047, 062				
Pulsar	051, 032				

VCR Codes

The remote control is programmed with VCR codes for power on/off, play, stop, fast-forward, rewind, pause, record, channel up/down operation.

- 1) Find the VCR brand from the list of codes shown below.
- 2) Slide the first 2-way selector switch to "TV" and the other 2-way selector switch to "VCR".
- 3) Press and hold down the DISPLAY button, then enter the first code number listed with the 10 key pad.
- 4) Release the DISPLAY button, and confirm the operation of the VCR.
- If your VCR does not respond to the first code, try the others listed. If it does not respond to any of the codes, try the search codes function on page 29.
- After you program your remote, some VCR buttons may not work properly. If so, use the VCR's remote.
- To record, hold down the REc button on the remote and press PLAY.

VCRs	CODES	VCRs	CODES	VCRs	CODES
Admiral	035	Marantz	003, 004, 005	Samsung	037,060,062,
Aiwa	027, 032, 095	Marta	064		033, 089
Akai	029, 072, 073,	Memorex	024,067	Samtron	089
	074	MGA	038, 040, 047,	Sansui	003, 026, 020,
Audio Dynamic			048, 041, 042	Canua	052 063, 067, 091,
Bell & Howell	063, 071	Minolta	058, 045, 093	Sanyo	063,067,091, 071
Broksonic	020, 026, 094	Mitsubishi	038, 040, 047,	Scott	059,060,062,
Canon	023, 025		048, 041, 042, 078, 090		067, 038, 040,
CCE	043	Multitech	047,027,062		047, 048, 026,
Citizen	064	NEC	003,004,005,	-	020
Craig	063, 029, 064	NEC	000,004,005,	Sears	063,064,065, 066,058,000,
Curtis Mathes	045,024,027, 093	Olympic	024,023		000, 000, 000, 000,
Daewoo	043, 059, 024,	Optimus	028, 021, 035,	Shintom	075
2001100	092		064	Sharp	035, 036, 080,
DBX	003, 004, 005	Orion	026,020		088
Dimensia	045, 093	Panasonic	023, 024, 021, 022	Signature 2000	027, 035
Emerson	043, 026, 077,	Penney	024,058,045,	Singer	075
	061, 025, 042,	renney	063,003,004,	Sony	028, 029, 030, 053, 054, 055
	020, 076		005,093	01/ 2022	
Fisher	063, 066, 067, 065, 071, 091	Pentax	058, 005, 045,	SV 2000 Svivania	027
			093	Sylvania	031,023,024, 027
Funai	027, 026, 020, 000	Philco	031,024,027, 023,026,020,	Symphonic	027.081
G.E.	033, 045, 024		043	Tashiro	064
Go Video	037, 051, 049,	Philips	031,023,024,	Tatung	003,004,005
	050, 089		086	Теас	003, 004, 027,
Goldstar	064	Pioneer	023		005
Gradiente	083, 084, 081,	Proscan	045, 058, 023,	Technics	021, 022, 023,
	000, 001		024, 031, 046, 059, 060, 033,		024
Hitachi	023, 045, 058,		087,093	Teknika	024, 027, 070
	027, 081, 093	Quasar	021,022,023,	Toshiba	059, 046, 079
Instant Replay	024, 023	4,44047	024	Vector Research	005
Jensen	003	Radio Shack	033, 024, 063,	Wards	035, 036, 067, 044, 064
JVC	000, 001, 002,		036,067,040, 027	Yamaha	063, 003, 004,
	003, 004, 005	RCA	033, 045, 058,	Tamana	005
Kenwood	003, 004, 064,		023, 024, 031,	Zenith	044, 082, 064,
	005		046, 059, 060,		094
LXI	027, 064, 058,		083, 084, 085,		
	065, 066, 063,		087,093		
	067	Realistic	024, 063, 036,		
Magnavox	031, 023, 024, 086		067, 040, 027		
	000				

DVD Codes

The remote control is programmed with DVD codes for power on/off, play, stop, fast-forward, rewind, previous/next chapter, tray open/close, and still/pause operation.

- 1) Find the DVD player brand from the list of codes shown below.
- 2) Slide the first 2-way selector switch to "TV" and the other 2-way selector switch to "DVD".
- 3) Press and hold down the DISPLAY button, then enter the first code number listed with the 10 key pad.
- 4) Release the DISPLAY button, and confirm the operation of the DVD player.
- If your DVD player does not respond to the first code, try the others listed. If it does not respond to any of the codes, try the search codes function on page 29.
- After you program your remote, some DVD buttons may not work properly. If so, use the DVD player's remote.

DVD Player	CODES	DVD Player	CODES
Aiwa	043	RCA	021, 026
Apex	040	Sampo	034
Denon	020, 037	Samsung	030
Hitachi	030, 031	Sharp	028
JVC	000	Silvania	038
Kenwood	035	Sony	024, 045, 046,
Konka	039		047
Mitsubishi	025	Technics	020
Onkyo	041	Toshiba	023
Oritron	044	Vialta	050
Panasonic	020	Wave	042
Philips	023, 036	Yamaha	020
Pioneer	022	Zenith	027, 032
Raite	033		

Search Codes

Cable/Satellite Search Codes Function

- 1) Slide the first 2-Way Mode Selector switch to CATV.
- 2) Press the Power and Return+/TV buttons. Hold for at least three seconds and release.
- 3) Press the Power button on the remote, and see if the cable or satellite box responds.
- 4) If there was a response, press RETURN+/TV. The codes are now set. If there was no response, repeat Step 3. If you repeat Step 3 a total of 80 times without a response, use the remote control that came with your equipment.
- 5) Press RETURN+/TV to exit.

VCR/DVD Search Codes Function

- 1) Slide the first 2-way selector switch to "TV" and the other 2-way selector switch to "VCR" or "DVD".
- Press the VCR or DVD Power and Return+/TV buttons. Hold for at least three seconds and release.
- 3) Press the VCR or DVD Power button, and see if the VCR or DVD responds.
- 4) If there was a response, press RETURN+/TV. The codes are now set. If there was no response, repeat Step 3. If you repeat Step 3 a total of 80 times for the VCR (40 times for the DVD player), and there is no response, use the remote control that came with your equipment.
- 5) Press RETURN+/TV to exit.

Onscreen Menus

Using the Guide

Certain symbols are used throughout this guide to help you learn about the features of your new television. The ones you will see most frequently are:



Up and Down arrows mean press the CH+ or CH– buttons. Pressing the CH+ or CH– buttons let you:

- · Move vertically in a main menu screen
- · Move through a submenu screen
- Move to the next letter, number, or other choice in a submenu
- · Back up to correct an error
- Scan through TV channels (when not in a menu screen)
- Left and right arrows mean press the VOLUME+ or VOLUME- buttons to move left or right to:
 - · Select a highlighted menu item
 - · Select an item in a submenu
 - · Select numbers in certain menu options
 - · Turn the volume up or down (when not in a menu screen)

The "press button" icon means you should press the button named on your remote control. (Button names appear in SMALL CAPITAL LETTERS.)

The "helping arrow" icon points to the highlighted or selected item in a menu.

To bring up the onscreen menu, press the MENU button on the remote control. The item that appears in green is the one currently selected. If you use the Menu button on the TV's front panel instead of the remote, an additional menu screen showing INPUT, VIDEO STATUS and ASPECT will appear between INITIAL SETUP and PICTURE ADJUST. The "interactive plug-in menu" will appear the first time the TV is plugged in.

III 🗋 🕘 🖁 INITIAL SETUP
PREVIOUS
AUTO TUNER SETUP)
CHANNEL SUMMARY)
V-CHIP)
SET LOCK CODE)
CONVERGENCE
▼NEXT PAGE (4/5)
SELECT OPERATE NEW EXIT

Note:

 Menus shown in this book are illustrations, not exact replications of the television's onscreen displays.

Onscreen Menus

The Onscreen Menu System

Your television comes with JVC's onscreen menu system. The onscreen menus let you make adjustments to your television's operation simply and quickly. Examples of the onscreen menus are shown on the next page. Detailed explanations on using each menu follow later in this guide. For information about the interactive plug-in Menu, see pages 23 - 25.

The Onscreen Menu System

To open the onscreen menu system, press the MENU button on the remote control. You navigate within the onscreen menus by using the four directional arrow buttons on the remote control. (These buttons are also the CH +/– and VoL +/– buttons. Channel and volume functions will not operate when the onscreen menu is active).

The selected feature and option on a menu screen are highlighted in a different color.

Selected Option (Green) - LANGUAGE ENG. FRAN. ESP. Selected Option (Blue)

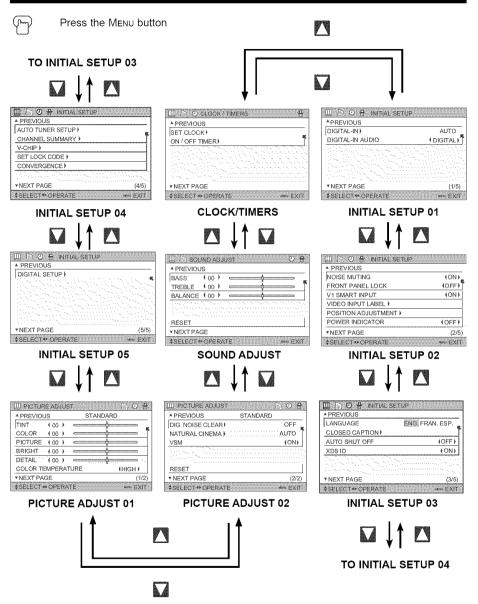
To move to a different feature use the ▲ ▼ arrows to move up or down the list. When you press the up arrow at the top of the list or the down arrow at the bottom, the next menu screen will appear. Use the arrows ◀ ► to select an option from the highlighted feature. Pressing MENU on the remote control will close the onscreen menu system and return you to normal television viewing.

Each menu and its features will be discussed in the following pages of this guide.

Notes: If you do not press any buttons for a few seconds, the onscreen menu will automatically shut off. Button names in this guide are shown in SMALL CAPITAL LETTERS. Menus may appear in different sizes onscreen depending on the aspect ratio selected. Some menu items may not appear in menu screens when certain aspect ratios or inputs

 Some menu items may not appear in menu screens when certain aspect ratios or inputs are selected

Onscreen Menus



- The DIGITAL-IN menu can only be displayed when a 480p picture signal is input to the digital-in terminal and the picture is being displayed on the screen.
- When the Menu button on the TV front panel is pressed, the FRONT PANEL CONTROL menu between INITIAL SETUP 05 and PICTURE ADJUST 01 will appear.
- · Regarding the digital setup menu, see page 67.

Auto Tuner Setup

The auto tuner setup function is described on page 25 as the interactive plug-in menu. If you need to run the auto tuner setup again, follow the steps below.



Press the MENU button

- To AUTO TUNER SETUP
- To operate
 - To choose CABLE or AIR
 - Press the Ok button to start

DE (A	AIR
	·
	· ***.
	<u>.</u>
PRESS	

Programming will take approximately 2 to 4 minutes. The auto tuner is finished when the message **PROGRAMMING OVER!** appears onscreen.



Press the Menu button when finished

Channel Summary

Channel summary allows you to customize the line-up of channels received by your TV. Regarding analog channels, you can add or delete channels from the line-up or prevent any unauthorized viewers from watching any or all 181 channels. Regarding digital channels, the only channels that will appear are the ones that are broadcasting.



Press the MENU button

To CHANNEL SUMMARY

To operate

The Channel summary screen will now be displayed with the channels set to scan marked with an " \sqrt{n} . Regarding analog channels, you can delete channels from the scan by removing the " \sqrt{n} . If any channels were missed during auto tuner setup and you wish to add them, you may by placing an " \sqrt{n} next to the channel number.

• Digital channels can not be added to the channel summary if the auto tuner setup did not find them.



▲▼ ◀► To the SCAN column

Press the $\ensuremath{\mathsf{O}}\xspace\kappa$ button to include or delete from scan

m

Press the MENU button when finished

Note:

 The number of a digital channel may change, depending on the time of some broadcastings. If this channel existed and now had disappeared, the lock channel or scanned channel by the channel summary for that channel will be cancelled.

Analog Channels

CHNO. SCAN ID 🙆	CHNO. SCAN ID 🛕
01	06 🗸 HBO
02 🖌 MTV	07 ✓ L
03	08
04 🗸 A&E	09 🖌
05 🖌 El	10

Digital Channels

	CH No.	s	can "	Station I	Vante	â
10000	001		✓ 🛛	FO	¢	
Service	D02		√ ∭	A.8(
000000	D62			Chi	e .	
Distantion of the local distance of the loca	D10-1		√ 🖉	NB		√
2000	D10-2			BO)		
222200	D12345		</td <td>NHI</td> <td>c i i i i i</td> <td></td>	NHI	c i i i i i	

How to set the channel label. (This is only for analog broadcasting.)

(m) Press the MENU button To CHANNEL SUMMARY 4> To operate AV. To the ID column ᢉᡢ Press the Ok button to enter 4> To select the character you want AV To move to the next space ...continue to follow these directions for all four spaces Press the Ok button to finish Your characters are now set Press the MENU button when finished If you want to reset the characters you set: Press the MENU button

P ID	
CHANNEL 09	
1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	1
RESET	
PRESS WTO FINISH	
\$SELECT * OPERATE **** EXIT	10000

- To CHANNEL SUMMARY
- To operate To the ID column
- Press the Ok button to enter
- To select RESET
- Press the Ok button to finish

Your characters are now reset

Notes:

- · You can use characters for: Alphabet, numbers, marks and spaces.
- It is possible to set the maximum of 40 channel labels.
- If you try to set more than the 40 maximum, the message "MEMORY OVERFLOW" will appear.

You can block access to a channel by activating the channel lock.



Press the MENU button

▲▼ To CHANNEL SUMMARY

To operate

▲▼ ◀► To the Lock Column (🏠)

Press the ZERO button to lock or unlock that channel

Press the MENU button when finished

Channel Guard Message

When a viewer attempts to watch a guarded channel, the following message appears:

To watch a channel that you have locked, enter the Lock Code using the 10 key pad. If the wrong code is entered, the message "INVALID LOCK CODE!" will flash on the screen.

The channel cannot be accessed until the correct code is entered.



- · Once a channel has been unlocked, it will remain unlocked until the television is turned off.
- · See also "Set Lock Code", page 42.

V-Chip

Your TV is equipped with V-Chip technology which enables you to block channels or content that you feel to be inappropriate for children, based on US and Canada rating guidelines. V-Chip has no effect on video signals from DVD discs or Camcorder connection.

Note: Some programs, and movies are broadcast without a ratings signal. Even if you set up V-CHIP ratings limits, these programs will not be blocked. See page 37 for information on how to block unrated programs.

You can customize the V-Chip settings of your television to match your personal tastes. The V-Chip menu below is the starting point for your V-Chip settings

You can use US V-Chip settings and movie ratings. You may use any or all of the settings (US V-Chip and Movie ratings). Descriptions for setting each of the three V-Chip formats appear in the next five pages along with descriptions of the rating categories.

To access the rating categories:



To V-CHIP

Press the MENU button

- To operate (Lock icon 🏦 will appear)
- Press ZERO to access the V-Chip menu
- ▲► To turn V-Chip ON or OFF (V-Chip must be turned ON for rating settings to operate)
- ▲▼ To move to SET US TV RATINGS or SET MOVIE RATINGS. (see following pages for descriptions of each item)

V-CHIP	_	_		ŧ.	ō	F	F	¥.	
SET US TV RATINGS)									Ĩ
SET MOVIE RATINGS)									Ì
SET CANADIAN RATINGS ENG)	-								Ì
SET CANADIAN RATINGS FRE }									1
UNRATED			 ŧ	V	Æ	٠V	V	þ	1
			 						1
			 				-		



Unrated Programs

Unrated programming refers to any programming which does not contain a rating signal. Programming on television stations which do not broadcast rating signals will be placed in the "Unrated Programming" category.

Examples of Unrated programs:

- · Emergency Bulletins
- News
- Public Service Announcements
- Sports
- Some Commercials

Note:

 TV programs or movies that do not have rating signals will be blocked if the unrated category is set to BLOCK.

Directions to Block Unrated Programs

You can block programs that are not rated.

- m Press the MENU button To V-CHIP **AV** 4> To operate (The lock icon A appears) Pm
 - Press ZERO to access V-Chip setup options
 - To UNRATED
 - To VIEW or BLOCK
 - Press MENU when done

- · Locally Originated Programming
- · Political Programs
- · Religious Programs
- Weather

8 V-CHIP V-CHIP (OFF) SET US TV RATINGS) SET MOVIE RATINGS } SET CANADIAN RATINGS ENG } SET CANADIAN RATINGS FRE } UNRATED (VIEW) SELECT ** OPERATE MINU EXIT

US V-Chip Ratings

U.S. PARENTAL RATING SYSTEMS

Programs with the following ratings are appropriate for children.

□ TV Y is Appropriate for All Children

Programs are created for very young viewers and should be suitable for all ages, including children ages 2 - 6.

TV Y7 is for Older Children

Most parents would find such programs suitable for children 7 and above. These programs may contain some mild fantasy violence or comedic violence, which children should be able to discern from reality.

Programs with the following ratings are designed for the entire audience.

□ TV G stands for General Audience

Most parents would find these programs suitable for all age groups. They contain little or no violence, no strong language, and little or no sexual dialog or situations.

TV PG Parental Guidance Suggested

May contain some, but not much, strong language, limited violence, and some suggestive sexual dialog or situations. It is recommended that parents watch these programs first, or with their children.

□ TV 14 Parents Strongly Cautioned

Programs contain some material that may be unsuitable for children under the age of 14 including possible intense violence, sexual situations, strong coarse language, or intensely suggestive dialog. Parents are cautioned against unattended viewing by children under 14.

TV MA Mature Audiences Only

These programs are specifically for adults and may be unsuitable for anyone under 17 years of age. TV MA programs may have extensive V, S, L, or D.

Viewing Guidelines

In addition to the ratings categories explained above, information on specific kinds of content are also supplied with the V-Chip rating. These types of content may also be blocked. The content types are:

- V/FV is for VIOLENCE/FANTASY VIOLENCE
- S stands for SEXUAL CONTENT
- L stands for strong LANGUAGE
- D stands for suggestive DIALOG

Setting US V-Chip Ratings

Press the MENU button
 ▲▼ To V-CHIP
 ▲► To operate (lock icon appears)
 Press ZERO to access the V-Chip menu
 ▲► To turn V-Chip ON or OFF
 ▲▼ To move to SET US TV RATINGS
 ▲► To operate

V-CHIP	(OFF
SET US TV RATINGS	
SET MOVIE RATINGS 1	
SET CANADIAN RATINGS EI	NG)
SET CANADIAN RATINGS FF	RE)
UNRATED	(VIEW)

Directions to set US V-Chip Ratings

Line up the cursor in the column (TV PG, TV G, etc.) with the content row (V/FV, S, etc.) and press the \blacktriangle or \blacktriangleleft to move the cursor to the correct location. Press OK to turn the locking feature on or off. An item is locked if the \clubsuit icon appears instead of a "—".

For example. To block viewing of all TV 14 shows, move the cursor to the top row of that column and add a lock icon. Once you've put a lock on the top row, everything in that column is automatically locked.



▲▼ ◀► To the TV 14 Column

Press the Ok button to lock

Press the MENU button when finished

Note:

 If you want to change the setup, move the cursor to the top column and change the lock icon to "—" by pressing OK again. You may then select individual categories to block.

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		MA	隆	PPC -	τv G	** ¥7	 60. 1				
			û						e en el Secolo		
	V/FV	(-)	â			-	 		2		t. N
	S	1603	· 🛱 .	1005	<u>.</u>	-	 2				
	1		Ω.		<u></u>						
1.1	·		.A								

Movies Ratings

NR – Not Rated

This is a film which has no rating. In many cases these films were imported from countries which do not use the MPAA ratings system. Other NR films may be from amateur producers who didn't intend to have their film widely released.

NR (Not Rated) Programming may contain all types of programming including children's programming, foreign programs, or adult material.

G – General Audience

In the opinion of the review board, these films contain nothing in the way of sexual content, violence, or language that would be unsuitable for audiences of any age.

PG – Parental Guidance

Parental Guidance means the movie may contain some contents such as mild violence, some brief nudity, and strong language. The contents are not deemed intense.

□ PG-13 – Parents Strongly Cautioned

Parents with children under 13 are cautioned that the content of movies with this rating may include more explicit sexual, language, and violence content than movies rated PG.

R – Restricted

These films contain material that is explicit in nature and is not recommended for unsupervised children under the age of 17.

NC-17 – No One Under 17

These movies contain content which most parents would feel is too adult for their children to view. Content can consist of strong language, nudity, violence, and suggestive or explicit subject matter.

X – No One under 18

Inappropriate material for anyone under 18.

Directions to set Movie (MPAA) Ratings

- Press the MENU button
 - To V-CHIP
- To operate (Lock icon A appears)
 - η Press ZERO to access V-Chip setup options
- ▲▼ To SET MOVIE RATINGS
- ▲► To enter movies menu

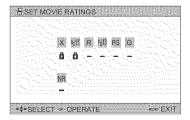
For example:

To block viewing of X and NC-17 rated from shows:



- ▲▼ ◀► To the X Column
 - Press the Ok button to lock
 - ▲ To the NC-17 Column
 - Press the Ok button to lock

Press the MENU button to finish



Canadian V-Chip Ratings

🗇 E – Exempt

Exempt programming includes: news, sports, documentaries and other information programming, talk shows, music videos, and variety programming.

□ C – Programming Intended for Children

Violence Guidelines: There will be no realistic scenes of violence. Depictions of aggressive behavior will be infrequent and limited to portrayals that are clearly imaginary, comedic or unrealistic in nature.

□ C8+ – Programming Intended for Children 8 and Over

Violence Guidelines: Any realistic depictions of violence will be infrequent, discreet, of low intensity and will show the consequences of the acts. There will be no offensive language, nudity or sexual content.

G – General Audience

Programming will contain little violence and will be sensitive to themes which could affect younger children.

PG – Parental Guidance

Programming intended for a general audience, but which may not be suitable for younger children. Parents may consider some content not appropriate for children aged 8-13.

□ 14+ – 14 Years and Older

Parents are strongly cautioned to exercise discretion in permitting viewing by pre-teens and early teens. Programming may contain mature themes and scenes of intense violence.

🗆 18+ – Adult

Material intended for mature audiences only.

Directions to set Canadian V-Chip Ratings

- Press the MENU button
- ▲▼ To V-CHIP
- ◀► To operate (lock icon appears)

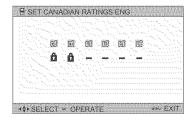
Ress ZERO to access V-Chip setup options

- ▼ To SET CANADIAN RATINGS ENG (for English)
 - To enter ratings menu

For example:

To block viewing of programming rated 14+ and 18+:

- ▲► To the 18+ Column
 - Press the Ok button to lock
- ▲ To the 14+ Column
 - Press the Ok button to lock
 - Press the MENU button to finish



Note:

• For instructions on "SET CANADIAN RATINGS FRE (in French)", please see page 41 in the French side of this user's guide.

Set Lock Code

Channel guard and V-Chip settings are protected by a four-digit lock code. Your TV comes preset with a lock code of "0000". You may change the code to any four-digit number you wish. To change the lock code, follow the steps below.



Press the MENU button

To SET LOCK CODE

To operate (lock icon 🚹 appears)

Press ZERO to access the lock code

The first digit will be highlighted



▲▼ To move to the next digit

LOCK CODE	0000
	and the second sec

Continue to follow these directions for all four numbers

Press the OK button to finish (your lock code is now set)

Press the Menu button when finished

When a viewer attempts to watch a blocked channel, this message appears:

THIS PROGRAMMING EXCEEDS YOUR RATING LIMITS. PLEASE ENTER LOCK CODE BY 10 KEY PAD TO UNLOCK IT. NO.----

The channel will remain blocked until the correct lock code is entered (see above for information on setting your lock code).

- After a power interruption you must reset the lock code.
- · Write your lock code number down and keep it hidden from potential viewers.
- If you forget the lock code, a new code may be set using the steps listed above.

R CONVERGENCE

AUTO)

MANUAL

Adjusting CRT Color Convergence

This TV has three color projection tubes: one for red, green, and blue. When mixed together in the proper portions, the output of these three color tubes can produce any color. To produce these colors, however, the beams must be precisely aligned over each other so that the colors can be mixed. The produce of aligning these picture beams is called "convergence".

Attention:

- Please have your TV on for at least 20 minutes before using this feature.
- This adjustment will be needed only when the colors of the characters/lines are separated and lack in distinction. If not, please don't perform the adjustment.

Colors may become separated after the TV has been moved, or over a long period of time if regularly subjected to low levels of vibrations. If the colors become separated, please perform the adjustments below again. In the beginning, please be sure to perform AUTO convergence adjustment.

adjustment.	RESET
•	
	\$ SELECT ** OPERATE NON EXIT
n	

To select "AUTO" (The convergence adjustment will start. It will take about 50 seconds).

When the adjustment is finished, it will return to what you were watching.

Note:

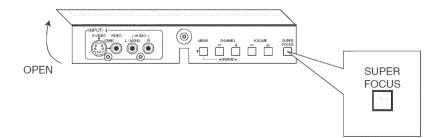
AV

Auto

Press the MENU butto

To Enter

- You can reset the adjustment if you do not like the results. See the next page.
- If you want to adjust it more, you can perform the manual color convergence adjustment. See the next page.
- You can also access this feature by pressing the SUPER Focus button on the front panel of your TV.



Adjusting CRT Color Convergence (continued...)

Manual



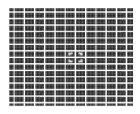
Press the MENU button

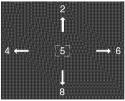
- ▲▼ To CONVERGENCE
- To Enter
- ▲▼ To choose MANUAL
- To Enter

If all the lines are white, no convergence adjustment is necessary. If not, you need to perform the manual color

number buttons on the remote control. You can select any of the 81 points.









የጣ

Press the SLEEP TIMER button to change the color of the

Select the location you want to adjust by using the

box 📱 🕽 to the color of the cross you wish to adjust (red or blue).

✓ ▲► Adjust the position of the cross.

Adjust the three color crosses until they overlap and appear as a single white cross.



Press the Oĸ button

Notes:

- When you adjust the convergence, make sure you start with the center position (position 5), and work your way around radially for best results.
- When you make the adjustment in the center (position 5), you are making the adjustment for the whole screen. In other positions, you are making the adjustment only in that area.
- · You can reset the adjustment if you do not like the results. See below.
- If you perform AUTO convergence after performing MANUAL convergence, your manual convergence you performed will be cancelled.

Rese	et		
*************************************	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	000000000000000000000000000000000000000	 wanninanan

RESET resets all convergence adjustments to the factory default settings.



Press the MENU button

- ▲▼ To CONVERGENCE
- To Enter
- ▲▼ To RESET
- To enter

When the adjustment is reset, it will return to what you were watching.

Language

The language function is described on page 23 as the interactive plug-in menu. If you need to choose the language again, follow the steps below.



(from)

Press the Menu button

To LANGUAGE

To choose a language: ENG. (English), FRAN. (French) or ESP. (Spanish)

Press the MENU button when finished

PREVIOUS LANGUAGE	ENG FRAN. ESP.
CLOSED CAPTION)	SOBSE FRAN, ESF.
AUTO SHUT OFF	(OFF)
XDS ID	(ON)
* NEXT PAGE	(3/5

Closed Caption

Many broadcasts now include an onscreen display of dialog called closed captions. Some broadcasts may also include displays of additional information in text form. Your television can access and display this information using the closed caption feature. To activate the closed caption feature, follow the steps below. There are three methods. When you are watching analog channels, you can perform Analog Setting of closed caption. When you are watching digital channels, you can perform Digital Auto Setting or Digital Manual Setting.

Analog Setting

- - To enter
- ▲▼ To MODE
 ▲▶ To select (
 - To select CAPTION or TEXT in MODE
- ▲▼ To CAPTION or TEXT◀▶ To select a caption (C
 - To select a caption (CC1 to CC4) or text channel (T1 to T4)
 - Press the Ok button to save

Press the MENU button

To CLOSED CAPTION

Press the MENU button when finished

	MODE	(TEXT)
TEXT (T1)	CAPTION	(CC1)
	TEXT	(T1)

Digital Auto Setting



m

m

- Press the MENU button
- To CLOSED CAPTION
- To enter
- То Туре
 - To select Auto, Advanced or Basic

Auto: Shows closed caption a priority for digital channels over analog channels. It is set automatically.

Advanced: Shows only the digital closed caption.

Basic: Shows only the analog closed caption.

- ▲▼ To Service
- ▲► To select 1, 2, 3, 4, 5 or 6
- ▲▼ To Appearance
- To enter
- To select Auto
- ▲▼ To Set
- Press the Ok button to save

The font/type and color are set automatically.



Press the MENU button when finished

Note:

· If you want to cancel the settings, select cancel.

S		Caption Sam	ple AUto >	
S	ype ervice	Caption Sam	*	
S	ype ervice	Caption Sam	*	
S	ervice	•	AUTO ►	
monome			1	
	openitore		195252115200259160	
			•	3150-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
		and the second se		* : N.
				2000
	Cancel		Set	
(2) Sele	a 🗘 o:	erate O Baci	iew C Exi	
CiQica Or	oaca capata	Appeara	inco.	
Prev	view			
	Cleard	Cantina Care		
	Ciosea	Caption Sam	pie	1.1
A	ppearance Mode	4	Auto 🕨	
				*
	Cancel	2000	Set	2000
(Č) Sele		ate n Bac	NC (4)	

Digital Closed Caption > Appearance

Appearance Manual Manual

Digital Closed Caption > Appearance

Closed Caption Sample

00 Select 00 Operate Back

Appearance Me Font Size

Closed Caption Sample

в

Exit

Standard

Preview

Font

Colors

Opacities Cance

Preview

Digital Manual Setting

M	Press the MENU button
	To CLOSED CAPTION

- To enter
- ▲▼ To Type
- To select Auto, Advanced or Basic
- ▲▼ To Service
- ▲► To select 1, 2, 3, 4, 5 or 6
- ▲▼ To Appearance
- To enter
- To select Manual
- ▲▼ To Font
- To enter
- ▲▼ To select Font Size or Font Style
- ◀► To select the setting you like

Font Size: Auto, Standard, Large or Small

Font Style: Auto, Serif Mono, Serif, Sanserif mono, Sanserif, Casual, Cursive or Small Capital

	Sanseni, Casual, Cursive of Sinali Capital
▲▼	To Set
F	Press the Oĸ button to save
	To Colors To enter To select Text, Edge or Background To select the setting you like Auto, White, Black, Red, Green, Blue, Yellow, Magenta or Cyan
▲▼	To Set
m	Press the Ok button to save
▲▼	To Opacities
<►	To enter
▲▼	To select Text/Edge or Background
4	To select Auto, Transparent, Translucent, Solid



···	Praviaw		
	CI	osed Caption San	nple
	Appearance	M Tex	e Wiste e
12.5	Font	Edge	White
	Colors	Beckground	Black
Sec. 1	Opacities	Cancel	Set
	Cance	22200220022000000000000000000000000000	Set

All fonts used for digital closed caption and digital menus are licensed from Monotype Imaging Inc.

Press the MENU button when finished

Press the Ok button to save

or Flashing To Set

- Closed caption subtitles are usually found on closed caption channel CC1. Some programs may include additional text information which is usually found on text channel T1. The other channels are available for future use.
- Closed captioning may not work correctly if the signal being received is weak or if you are playing a video tape.
- · Most broadcasts containing closed captioning will display a notice at the start of the program.
- To select the mode, press the C.C. button. See page 62.

Auto Shut Off

This function automatically shuts off your TV when there is no signal from the channel the TV is on.



Press the MENU button

To AUTO SHUT OFF

To turn ON or OFF

Press the MENU button when finished

 If the channel that you have on does not receive a signal for more than one minute, the blinking text "NOT RECEIVING A SIGNAL AUTO SHUT OFF IN 9 MIN." appears on the screen, and starts the countdown. If no signal is being received within 10 minutes, the TV shuts itself off.

PREVIOUS	ENTER COLLEGO
LANGUAGE	ENG, FRAN, ESP.
CLOSED CAPTION I	
AUTO SHUT OFF	(OFF)
XDS ID	(ON)
NEXT PAGE	(3/5

XDS ID

XDS ID Display provides a channel's call letters, the network's name, and even a program name. The XDS ID information is provided by the broadcaster.



Press the Menu button To XDS ID

To turn ON or OFF

Press the MENU button when finished

PREVIOUS	SETUP
LANGUAGE	ENG FRAN. ESP.
CLOSED CAPTION)	
AUTO SHUT OFF	(OFF)
XDS (D	(ON)
*NEXT PAGE	(3/5)

Noise Muting

This feature inserts a blank gray screen over channels which are not broadcasting or are too weak to be received clearly.



Press the MENU button

To NOISE MUTING

To turn noise muting ON or OFF



Press the MENU button when finished

Notae	
notes	

- Noise muting will not work during auto tuner setup or when you operate channel summary.
- Noise muting will not work when the digital TV is displayed.

Ⅲ ○ 은 몸 INITIAL SETUP	
▲ PREVIOUS	
NOISE MUTING	(ON)
FRONT PANEL LOCK	(OFF)
V1 SMART INPUT	(ON)
VIDEO INPUT LABEL)	
POSITION ADJUSTMENT)	
POWER INDICATOR	(OFF)
*NEXT PAGE	(2/5)
\$SELECT ** OPERATE	www.EXIT

Front Panel Lock

This allows you to lock the keys on the front of the TV, so that a child may not accidentally change your viewing preferences.



Press the MENU button

To FRONT PANEL LOCK

To turn ON or OFF

Press the MENU button when finished

You can turn off this feature in the following ways:

- Unplug the power cord, and plug it back in. Do this if your batteries die, or you lose your remote control.
- · Use the remote control.
- Press the MENU button on the front of the TV for more than 3 seconds. In this case, the OSD for FRONT PANEL LOCK will appear.

Note:

 To turn ON/OFF the TV, press the power button for more than 3 seconds. This feature will remain ON.

V1 Smart Input

This feature is used if you have connected an AV Receiver to your television. By turning this feature on, your television can automatically detect the signal source from your components that are connected to your AV Receiver.

- (m)
- Press the MENU button

To V1 SMART INPUT

▲▼

To turn ON or OFF



Press the MENU button when finished

- If you do not have an AV Receiver connected to your television, turn this feature OFF.
- · Some AV Receivers may not work with this function.

□□ 「「○ ● INITIAL SETUP」	
* PREVIOUS	
NOISE MUTING	(ON
FRONT PANEL LOCK	(OFF
V1 SMART INPUT	(ON
VIDEO INPUT LABEL)	
POSITION ADJUSTMENT)	·····
POWER INDICATOR	(OFF
▼NEXT PAGE	(2/5
\$SELECT ** OPERATE	uenu EXI

+ PREVIOUS	
NOISE MUTING	∢ON
FRONT PANEL LOCK	€ OFF
V1 SMART INPUT	∜ ON
VIDEO INPUT LABEL)	
POSITION ADJUSTMENT	
POWER INDICATOR	∮ OFF
*NEXT PAGE	(2/5
\$SELECT ** OPERATE	useu (FXI

Video Input Label

This function is used to label video input connections for the onscreen displays.

video input

preset input label (see

M	Press the MENU button
▲▼	To VIDEO INPUT LABEL
4	To enter
▲▼	To select the desired video in
4	To select the desired preset i chart below)
(Prop)	Press the OK button to save
6	Press the MENU button when

Press the MENU button when finished

III 「」 C B INITIAL SETUP	
* PREVIOUS	
NOISE MUTING	(ON)
FRONT PANEL LOCK	(OFF)
V1 SMART INPUT	(ON)
VIDEO INPUT LABEL)	
POSITION ADJUSTMENT }	
POWER INDICATOR	(OFF)
*NEXT PAGE	(2/5)
\$SELECT ** OPERATE	ana EXIT

B VIDEO INPUT LABEL

(DVD)
{SAT}
(GAME)
(STB)
SH

Preset Labels	Select when
VCR	You have a VCR connected to the video input
DVD	You have a DVD connected to the video input
DVHS	You have a Digital VCR connected to the video input
STB	You have a Set-top Box connected to the video input
SAT	You have a Satellite Receiver connected to the video input
AMP	You have an Amplifier connected to the video input
GAME	You have a Video Game connected to the video input
CAM	You have a Video Camera connected to the video input
DISC	You have a Video Disc player connected to the video input

Position Adjustment

Position adjustment allows you to adjust the position of the picture on the screen vertically when the aspect is set to panorama, cinema or full.



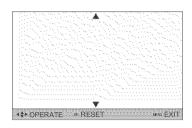
Press the MENU button

To POSITION ADJUSTMENT

To enter

To adjust the position

Press the MENU button to finish



Notes:

- To reset the adjustment to the center, press the Oκ button.
- When the arrow disappears, while you are adjusting the position, the position is at its maximum limit.
- · If you select regular size with aspect, position adjustment option is not seen.
- · When you change the screen size, perform the position adjustment again.
- Position adjustment allows you to adjust the screen position vertically and horizontally when the aspect is set Panorama Zoom or Cinema Zoom for 1080i and 720p signals.

Power Indicator

Power indicator allows you to adjust the brightness of the power indicator



Press the MENU button



To POWER INDICATOR

To adjust POWER INDICATOR LOW, HIGH or OFF

Notes :

• If you set a timer on the TV, the power indicator will light even if the TV is on stand by.

□□ 「 [●] ● INITIAL SETUP	
* PREVIOUS	
NOISE MUTING	(ON)
FRONT PANEL LOCK	(OFF)
V1 SMART INPUT	(ON)
VIDEO INPUT LABEL	
POSITION ADJUSTMENT)	
POWER INDICATOR	(OFF)
*NEXT PAGE	(2/5)
\$SELECT ** OPERATE	ucu EXIT

Digital-In

The DIGITAL-IN option can only be displayed in the INITIAL SETUP menu when an HDMI480p picture signal is being input to the DIGITAL-IN terminal. This option adjusts the position when an HDMI or DVI 480p picture signal is being displayed on the screen. There are two types of HDMI480p picture signals: 640x480 and 720x480. If the displayed picture is slightly shifted, the position can be adjusted by selecting either SIZE1 or SIZE2.



- Press the MENU button
- ▲▼ To DIGITAL-IN
- ▲► To enter
- ▲▼ To select AUTO, SIZE1 or SIZE2
 - Press the MENU button to finish

비 이 문 이 문 INITIAL SETUP	
* PREVIOUS	· · · · ·
DIGITAL-IN)	AUTO
DIGITAL-IN AUDIO	(DIGITAL)
NEXT PAGE \$SELECT ** OPERATE	(1/5) *** EXII

Notes:

- The DIGITAL-IN menu can only be displayed when a HDMI or 480p picture signal is input to the Digital-In terminal and the picture is being displayed on the screen.
- You can select AUTO only when the signal is 480p for HDMI. When you select AUTO, the televison will select "SIZE1" or "SIZE2" automatically.

Digital-In Audio

This feature is used if you have a DTV or HDMI compatible component connected to your TV.



Press the MENU button

To DIGITAL-IN AUDIO

To select ANALOG, DIGITAL or AUTO

Press the Menu button when finished

- If your DTV or HDMI component is capable of digital audio and video, choose DIGITAL. If your DTV or HDMI component is capable of analog audio and digital video, choose ANALOG.
- Refer to your DTV or HDMI component's instruction manual for more information.
- When you select AUTO, the television will select "ANALOG" or "DIGITAL" automatically, depending on the audio input from the HDMI.
- When you select DIGITAL, select PCM on Digital Sound in the Digital Setup menu. See page 68.

Picture Adjust

Picture Settings

These settings allow you to change and adjust the way the picture appears on your television. **TINT**

Tint allows you to adjust the levels of red and green in your TV picture.

COLOR

The color function lets you make all the colors in the TV picture appear either more vivid or subtle.

PICTURE

Picture allows you to adjust the levels of black and white on the TV screen, giving you a darker or brighter picture overall.

BRIGHT

You can adjust the overall brightness of the TV picture with the Bright control.

DETAIL

The Detail feature adjusts the level of fine detail displayed in the picture.

Adjust the Picture Settings

Press the MENU button

- To TINT, COLOR, PICTURE, BRIGHT or DETAIL
- ▲ To enter

 TiNT
 +02
- ◀ ► To adjust the setting
- ▲▼ To move to the next setting
 - Press the MENU button when finished

PREVIOL	JS		STANDARD
TINT	1 00	Þ	annan an a
COLOR	(00	Þ	and a second sec
PICTURE	1 00)	·
BRIGHT	1 00	}	
DETAIL	1 00	}	·
COLOR TE	EMPE	RA'	TURE (HIGH)
NEXT PA	GE		(1
SELECT.	• OPF	RA	VTE west FX

Color Temperature

You can decide how strong or dull the colors appear on the TV screen.

m	I
A W	-

pm

- Press the MENU button To COLOR TEMPERATURE
- ▲ To enter

COLOR TEMPERATURE LOW_ HIGH

- To set LOW or HIGH
 - Press the MENU button when finished

TINT	4 00 ≯	000000000000000000000000000000000000000	Annonin manager
COLOR	(00)	CHARACTER STATE	Guunnuuuun
PICTURE	100)		4
BRIGHT	(00)	contraction	ģ
DETAIL	(00)		<u>å</u>
COLOR TE	MPERA	TURE	(HIGH)

Digital Noise Clear

With digital noise clear, this helps take our static or noise from a channel that may not be coming in clearly.



Press the MENU button

To DIG. NOISE CLEAR

To enter

To select the mode LOW, HIGH or OFF

Press the MENU button when finished

DIG NO	DISE CLEAR
	OFF
	LOW
	HIGH

Picture Adjust

Natural Cinema

Natural cinema corrects the problem of blurred edges which may occur when viewing a program originally shot on film (such as motion pictures) or animation. If you notice blurring at the edges of these programs, press NATURAL CINEMA and set it to AUTO. Natural Cinema helps correct conversion errors that occur when film, which is shot at 24 frames-per-second, is broadcast at the television rate of 30 frames-per-second.



▲▼

To NATURAL CINEMA

- To enter
- To select the mode "AUTO", "ON" or "OFF"

Press the NATURAL CINEMA button

Press the MENU button when finished

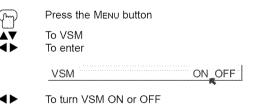
		ΔI	ITC

Notes: The natural cinema mode is automatically set to "AUTO" in the following cases:

- Turning on or off
- · Changing the channel or input mode

(VSM) Velocity Scan Modulation

Velocity scan modulation circuitry varies the electron beam's horizontal scanning speed to help accentuate the differences in picture brightness to sharpen the edges of images.



A PREVIOUS	STANDAR
DIG. NOISE CLEAR)	OFF
NATURAL CINEMA	(ON)
VSM	(ON)
RESET	
* NEXT PAGE	(2/2

Reset

Reset resets all picture adjustments (tint, color, picture, bright, detail, color temperature et dig. noise clear) at once to the default settings.



Press the MENU button To RESET

To enter

The onscreen menu disappears for a moment, and then the settings are reset to the default setting for all the picture adjustments.

Press the MENU button when finished

III PICTURE ADJUST	- IN O B
* PREVIOUS STANDA	RD
DIG. NOISE CLEAR)	OFF
NATURAL CINEMA	(ON)
VSM	(ON)
RESET	
• NEXT PAGE	(2/2)
\$SELECT ** OPERATE	MENN EXIT



Sound Adjust

Sound Settings

These settings allow you to change and adjust the sound on your television.

- **BASS** You can increase or decrease the level of low-frequency sound in the TV's audio with the bass adjustment.
- TREBLE Use treble to adjust the level of high-frequency sound in your TV's audio.
- **BALANCE** Adjust the level of sound between the TV's left and right speakers with the balance setting.

Adjust the Sound Settings

Press the MENU button

- To BASS, TREBLE or BALANCE
- To adjust the setting
- ▲▼ To move to the next setting

Press the MENU button when finished

PREVIOU	-	00	>					
TREBLE	ŧ	00)÷ `	433333	2002003			
BALANCE	¢	00)				amonom	
	<u></u>					·		
RESET								

Note:

free

- You can reset the sound adjustments (BASS, TREBLE and BALANCE) you set at once as the default setting when you select reset. See page 54.
- · You can adjust BALANCE only when HYPER SURROUND. is off. See page 59.

Reset

Reset resets all Sound Adjustments (Bass, Treble and Balance) at once to the default settings. See page 54 on how to use reset.

Clock/Timers

Set Clock

The set clock function is described on page 24 as the interactive plug-in menu. You can choose to set the clock automatically or manually. If you need to set the clock again, follow the steps below



Press the MENU button

To SET CLOCK To enter

When you set the clock automatically, choose AUTO by pressing the \triangleleft or \blacktriangleright arrows.

- **4**
 - To TIME ZONE To select your time zone

-> ATLANTIC -> EASTERN -> CENTRAL -> MOUNTAIN -->HAWAII -> ALASKA -> PACIFIC -

To D.S.T. (daylight savings time) 4 > To turn D.S.T. ON or OFF



Press OK to finish

Press the MENU button when finished

When you set the clock manually, choose MANUAL by pressing the \blacktriangleleft or \blacktriangleright arrows.

- To move to the hours AV
- ∢► To set the hours
- To move to minutes • •
- To set the minutes 1 >
- AV To TIME ZONE
- 4 🕨 To select your time zone: (Atlantic, Eastern, Central, Mountain, Pacific, Alaska or Hawaii)
- To D.S.T. (daylight savings time)
- To turn D.S.T. ON or OFF
- Press OK to start clock

THANK YOU !!

MODE
TIME
TIME ZONE
D.S.T.
PRESS

MODE	(AUTO)
TIME	
TIME ZONE	(ATLANTIC)
D.S.T.	(ON I
PRESS	TO FINISH
SELECT** OPERATE	utau FXT

O SET CLOCK



• SET CLOCK



Press the MENU button when finished

- D.S.T. can be used when it is set to ON in the SET CLOCK menu.
- · Only when the MODE set to AUTO, the Daylight Savings Time feature automatically adjusts your TV's clock for Daylight Savings. The clock will move forward one hour at 2:00 am on the first Sunday in April. The clock will move back one hour at 2:00 am on the last Sunday in October.
- You will have to reset the clock after a power interruption. You must set the clock before operating any timer functions.

Clock/Timers

On/Off Timer

The on/off timer lets you program your television to turn itself on or off. You can use it as an alarm to wake up, to help you remember important programs, or as a decoy when you're not home.

- Press the MENU button
- ▲▼ To ON/OFF TIMER
- ▲► To enter (begins with ON TIME)
- ▲► To set the hour (AM/PM) you want the TV to turn on
- ▼ To move to minutes

7:00 PM
10:00 PM
03
CURRENT
(EVERYDAY)
(NO)
FINISH
MENN EXIT

- ▲► To set the minutes
- ▼ To accept ON TIME and move to OFF TIME (the time the TV will turn off). Set the OFF TIME the same way as ON TIME
- ▼ To accept OFF TIME and move to CHANNEL
- ◀► To select channel
- ▼ To ON VOLUME
- To set the volume level
- ▼ To move to MODE
- Choose ONCE or EVERYDAY
- ▼ To ON/OFF TIMER
 - Choose YES to accept the timer setting, choose NO if you don't wish to accept
 - ♀ Press the OK button to finish
 - Press the MENU button to exit the menu

- · The on/off time cannot be set to locked or guarded channels.
- · In order for the on/off timer to work, the clock must be set.
- · After a power interruption, the timer settings must be reset.

Power

Turns the TV on or off.

m

Press the Power button

Number Buttons - 10Key Pad

Use the number buttons on the remote control to move directly to a specific channel. For example, to move to channel 12:

0 (Zero) 1 (One)

2 (Two)

Tune

Lets you decide the input channel and select it. After you press the number buttons on the remote, press the TUNE button. For example, to move to channel 12:

1 (One)

2 (Two)

Press the TUNE button

Input

Selects the signal input source for the television: Input-1, 2, 3, 4 or DIGIATL-IN for video devices like VCRs, DVD players, or camcorders.

m

Press the INPUT button

By every press of the INPUT button, you can change the input mode.

Notes:

- When you return to TV mode, press the RETURN + button or direct 10 key pad.
- You can also access the FRONT CONTROL PANEL screen by using the MENU button on the front of the TV instead of the remote control. It appears between INITIAL SETUP and PICTURE ADJUST screen, and it has INPUT, VIDEO STATUS and ASPECT menus. Choose INPUT by pressing MENU ▼ on the front panel and choose a mode by using the CHANNEL +/buttons (◀ OPERATE ►).

Channel +/-

Use these buttons to move up or down all the available channels your TV is able to receive.

Volume +/-

Use these buttons to raise or lower the TV's volume level.

Return +/TV

The RETURN+/TV button has three functions:

- Return Returns to the channel viewed just before the channel currently onscreen.
- **Return+** Lets you program a specific channel to return to while scanning through the channels using the CH+ and CH– buttons.
- TV Returns to the TV mode.



Press the RETURN+/TV and hold for three seconds



The channel currently active has been programmed as your return+ channel. Now scan through the channels using the CHANNEL+/– buttons.



Press the RETURN+/TV

You will return to your programmed channel.

- To cancel your return+ channel, press and hold the RETURN+ button for three seconds. The message "RETURN CHANNEL CANCELLED!" will appear.
- Return+ works only with the Channel+/– buttons. Pressing any number key will cancel return+.

Sound

By pressing the SOUND button, you can change the Hyper Surround mode and SMART SOUND on or off.

HYPER SURROUND - Creates a deep, three-dimensional sound effect by channeling the audio through the TV's front-firing speakers..

SMART SOUND - Decreases high sound levels, giving a regulated sound level.

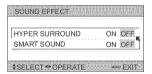


Press the Sound button

To select HYPER SURROUND or SMART SOUND To choose the setting



Press the MENU when finished



Note: Smart Sound may become an unnatural effect, depending on the signal source.

Video Status

The VIDEO STATUS button gives you a choice of four TV picture display settings, including a display of your own preferences.

Standard - Resets the picture display to the factory settings.

- Dynamic Gives a vivid picture with better contrast when viewing in a brightly lit room.
- Theater Gives a rich, film-like look to video when viewing in a dimly lit room.
- Game Used for when you are playing video games connected to your TV.

\	IDEO STATUS
	STANDARD
	DYNAMIC
·····	THEATER
·	GAME



Press the VIDEO STATUS button

By every press of the VIDEO STATUS button, you change the mode.

Note:

- You can also change the mode by pressing the ▲▼ buttons.
- You can also access the FRONT CONTROL PANEL screen by using the MENU button on the side of the TV instead of the remote control. It appears between INITIAL SETUP and PICTURE ADJUST screen, and it has INPUT, VIDEO STATUS and ASPECT menus. Choose VIDEO STATUS by pressing MENU ▼ on the side panel and choose a mode by using the CHANNEL +/- buttons (◀ OPERATE ►).

TheaterPro D6500K

The TheaterPro D6500K color temperature technology function makes sure that the video you watch is set to the standard color temperature, so that what you see is as true to what the film to video editors intended it to be.



Press the THEATERPRO button

Sleep Timer

The Sleep Timer can turn the TV off for you after you fall asleep. Program it to work in intervals of 15 minutes, for a total time of up to 180 minutes.



Press the SLEEP button

┍━━▶ 0 15 30 45 60 75 90 105 120 135 150 165 180 ━━▶

Sleep Timer Message

60 seconds before the automatic shutoff, this message will appear:

GOOD NIGHT!!	
PUSH SLEEP TIMER BUTTON	
TO EXTEND	

You then have 60 seconds to press the SLEEP button to delay the shut off for another 15 minutes.

ML/MTS

MTS technology allows several audio signals to be broadcast in analog at once, giving you a choice in what you wish to hear with a TV program. In addition to mono or stereo sound, an MTS broadcast may also include a second audio program (SAP).



Press the ML/MTs button

By every press of the M⊥/M⊤s button, you change the mode

	MTS
ON AIR	
ON AIR	SAP
	MONO

Notes:

- When you are receiving a digital broadcast, if there are other languages, you can change the language by pressing the ML/MTs button.
- Keep the TV in stereo mode to get the best sound quality. The sound will work in stereo mode even if a certain broadcast is in mono sound only.
- · Choose the mono setting to reduce excessive noise on a certain channel or broadcast.
- · Selecting SAP will allow you to hear an alternative soundtrack, if one is available.
- MTS unavailable if your television's Input source is in input 1, 2, 3 or 4 mode, as described on page 58.
- ML/MTS will not work when you are using the Digital-In and VIDEO 1 to 4.
- You can also change the mode by pressing the ▲▼ buttons.

Muting

The MUTING button instantly turns the volume down completely when you press it. Press MUTING and the volume level will instantly go to zero. To restore the volume to its previous level, press MUTING again.

Display

The display screen shows the current status of timers, inputs and XDS ID.



Press the DISPLAY button

The screen to the right shows the following information:

- The current channel or AV input (Channel 05)
- The current time (12:20 pm)
- Sleep timer status/minutes remaining (The Sleep Timer is off)
- On/off timer status (Set to turn on everyday at 7:00 PM, off at 10:00 PM)
- Each Press of the DISPLAY button changes the display mode:

05. KLVX: PBS
JAZZ FESTIVAL
NOW 12:20 PM
SLEEP TIMER OFF
ON/OFF TIMER EVERYDAY
ON TIME 7:00 PM
OFF TIME 10:00 PM

└─▶ Display ──→ Tir	ne ——→ Channel ——→ Off —→
---------------------	---------------------------

Display - Full screen shown above

Time - Shows the current time only

Channel - Shows the current channel

Off - Turns display off

Notes:

- · You may also turn off the display at any step by pressing MENU.
- If the clock, sleep timer or on/off timer are not set, the display screen will show: "CLOCK NOT SET", "SLEEP TIMER OFF", and "ON/OFF TIMER OFF" respectively.

C.C. (Closed Caption)

Use the C.C. (Closed Caption) button to select the mode of closed caption.



Press the C.C. button

- SMART CAPTION will appear when you press the MUTING button, only on channels where the broadcast contains closed captioning.
- When you select ON, it will be the mode selected in the Closed Caption Menu.
- · See page 46 when you set the caption/text mode.
- You can also change the mode by pressing the ▲▼ buttons.

CLOSED CAPTION
OFF
SMART CAPTION
ON

Favorite

The Favorite button allows you to select your favorite channels easily. First, you must register the channels that you like. See how to register below.



Press the FAVORITE button The favorite channel list will appear.

To select the channel you want to watch



Press the Oκ button It will change to the channel you have selected.

Register the favorite channel

Press the channel number you want to register The channel program will change.

Press the FAVORITE button for three seconds The channel will be registered in the favorite channel list.

Notes:

- Both analog and digital channels can be registered. The digital channels have a "D" in front of the channel number.
- The maximum number of channels you can register is 24.
- If you have registered the maximum number of channels, and try to register more channels, the oldest channel you registered will be deleted.
- · Sub channels can not be registered.
- · The newest channel you registered will appear at the top of the list.
- · Regarding digital channels, see page 69 70.

Delete the favorite channel

 Press the FAVORITE button *The favorite channel list will appear.* ▲▼
 To select the channel you want to delete To enter Press the Ok button *The channel was deleted.*

 Press the FAVORITE button when finished

Note:

• Before pressing the FAVORITE button when you are finished, press the ◀▶ button again, and you can return to the deleted channel.

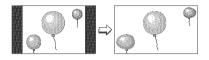
	FAVORITE
	▲ PREVIOUS
101	CBS 🖕
102	FOX
D103	PBS2
<	>
D107	HBO
8	ABC
· · · · · · · · · · · · · · · · · · ·	▼ NEXT

Aspect

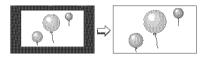
This feature will help you adjust the picture you are watching to give you the best possible picture quality.



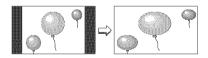
PANORAMA - With this ratio a normal 4:3 aspect picture is stretched to fit the dimensions of the 16:9 aspect screen.



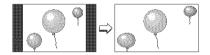
CINEMA - This ratio "zooms in" on the center part of a 4:3 aspect picture, blowing it up to fill the 16:9 screen.



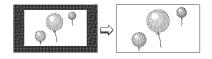
FULL - This is the ratio to use when watching 16:9 High-Definition broadcasts.



PANORAMA ZOOM - This ratio stretches the High-Definition 16:9 aspect image to eliminate the black side bars.



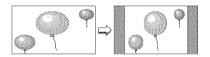
CINEMA ZOOM - This ratio stretches the High-Definition 16:9 aspect image to eliminate the black surrounding bars.



REGULAR - The regular ratio is used when you want to watch a 4:3 broadcast or recorded program without modifying the original picture to fit the dimensions of your 16:9 screen. The 4:3 picture will fill the screen from top to bottom, while gray bars will appear to fill up the remaining space along the picture's sides. The 4:3 picture will be centered within the boundaries of the 16:9 screen.



SLIM - This aspect mode shrinks the screen of 16:9 to 4:3. There are some programming that is already stretched by mistake at broadcasting companies, so this mode corrects it. Gray side bars will appear.



Aspect Ratios (Continued)



Press the ASPECT button

• By pressing the ASPECT button, you can change the size.

When you change the aspect ratios, it is different from their broadcast or recorded program.

NTSC, 480i, 480p

HD (1080i, 720p) ATSC (1080i, 720p)

ASPECT PANORAMA CINEMA FULL REGULAR

PANORAMA ZOOM CINEMA ZOOM	ASPECT	8 B B
011211120011	PANORAMA ZOOM	
FULL	CINEMA ZOOM	Ĩ
	FULL	

ASPECT PANORAMA ZOOM CINEMA ZOOM

FULL

SLIM

ATSC (480i, 480p)

Notes:

- You can also choose the size by pressing the ▲▼ buttons.
- When you change the aspect ratio or signal, reset the picture position to center.
- You can also access the FRONT CONTROL PANEL screen by using the MENU button on the front of the TV instead of the remote control. It appears between INITIAL SETUP and PICTURE ADJUST screen, and it has INPUT, VIDEO STATUS and ASPECT menus. Choose ASPECT by pressing MENU ♥ on the front panel and choose a mode by using the CHANNEL +/- buttons (◀ OPERATE ►).
- "SLIM" can only be dispalyed when the signal is ATSC (480i or 480p).
- If the televison receives a 16:9 signal from your HDMI device, the aspect mode will turn to
 FULL automatically. If the television receives a 4:3 signal from your HDMI device when you
 are in FULL aspect mode, it will return to REGULAR aspect mode. If you change the aspect
 mode after the televison changed it to FULL automatically, the televison will change to the
 aspect mode you choosed.

Menu

The MENU button allows you to access JVC's onscreen menu system. Press MENU to activate the onscreen menu system.

· See individual topics like "Sound Adjust" for specific information on using menus.

OK

This button confirms your selection when you are in one of the onscreen menus.

Back

This button allows you to go back in the menu to change a selection or correct a mistake.

TV/CATV Slide Switch

Use either the television's own tuner or a cable box to select channels. Set this switch to **TV** to operate the television's built-in tuner. Move the switch to **CATV** to operate a cable box.

Note:

· See page 26 for information on programming your remote for cable box operation.

VCR/DVD Slide Switch

You can control a VCR or DVD player with the buttons on the lower part of the remote control. Move the slide switch to **VCR** or **DVD** to operate.

Notes:

- The remote is preset with the code 000 to control JVC-brand VCR's. For any other manufacturer's brand VCR, please see the code chart and instructions on page 27.
- The remote is preset with the code 000 to control JVC-brand DVD players. For any other manufacturer's brand DVD player, please see the code chart and instructions on page 28.

VCR Buttons

You can use this remote control to operate the basic functions of your VCR. These functions include: play, record, rewind, fast-forward, stop, pause, channel scan, TV/VCR, power on, and power off.

Move the selector switch to VCR to operate.

 The remote is preset with the code 000 to control JVC-brand VCR's. For any other manufacturer's brand VCR, please see the code chart and instructions on page 27.

DVD Buttons

You can also use this remote control to operate the basic functions of your DVD player. These functions include: play, rewind, fast-forward, stop, still/pause, previous/next, tray open/close, power on, and power off.

Move the selector switch to DVD to operate.

 The remote is preset with the code 000 to control JVC-brand DVD players. For any other manufacturer's brand DVD player, please see the code chart and instructions on page 28.

Super Focus

This button is only located on the front panel of your TV. When you press the SUPER Focus button on the front of the TV, you can access the auto convergence mode in the convergence menu screen automatically. See page 43.

Digital Setup

Digital Setup

Use this function when you are receiving a digital broadcast.



Press the MENU button

- To DIGITAL SETUP
- To enter

The onscreen will appear

Notes:

Software Update will only appear when the SD Card is inserted.



• If you are watching an analog channel, you can still access the digital setup menu at anytime, while you are doing this, the background screen will turn blank. In this case, the tuner will switch to digital, since you are accessing the digital setup menu.

Antenna Level

Confirms the present antenna level.



Press the MENU button To DIGITAL SETUP

- To enter
- ▲▼ To Antenna Level
- To enter

A		Antenr	na Lev	el	
75			1		
	TRANSFORMENT				is Unit
BACK	Back	Mi	™ ∩ Exi		

Digital Setup

Digital Sound

You can select the optical digital sound output, either PCM or Dolby Digital when your TV is connected to an amplifier that has Dolby Digital decoder. If you select Dolby Digital, you can enjoy listening in 5.1ch sound when watching digital broadcasts.



Press the MENU button

- To DIGITAL SETUP
- To enter
 - To Digital Sound
 - To select PCM or DOLBY DIGITAL
 - Press the MENU button when finished

Notes:

- If your amplifier does not have Dolby Digital decoder, select PCM. If you don't select PCM, it cannot output the sound from the speakers.
- · For connecting an amplifier using the optical output, see page 19.



Manufactured under license from Dolby Laboratories. "Dolby", and the double-D symbol are trademarks of Dolby Laboratories.

Software Version

You can confirm the Software Version.

- ראין Press the MENU button
- To DIGITAL SETUP
- To enter
- ▲▼ To Software Version
- To enter
- Select close when you are finished confirming your software version
 - Press the MENU button when finished

Software Update

At first, insert the SD(Multi-media) card into the memory card slot. This function will appear only when you insert an SD Card.



Press the MENU button

- To DIGITAL SETUP
- To enter
- ▲▼ To Software Update
- To enter
- ▲▼ Checks the card if it needs an update or not
 - Press the MENU button when finished

Digital Button Functions

Digital CH D/A (Digital/Analog)

The D/A button changes the analog and digital channel. Each time you press the D/A button, you can switch back and forth the analog and digital channels. Digital channels have a "D" in front of the channel number.



Press the D/A button

To watch digital channels

For example, to move to channel D23:

Press 2 (Two)

Press 3 (Three)

Press 1 (One) Press 2 (Two) Press 3 (Three)

Press the TUNE button

Sub Channel

The main channel sometimes has minor channels (Sub Channels). By using the SUB CH button, you can select a sub channel easily.

For example, to move to sub channel 123-45:

Press the SUB CH button

Press the TUNE button

Press 4 (Four) Press 5 (Five)

Note:

 If there are more than 2 major channels, select the digital channel by using the ▲▼ buttons and then press the Oκ button.

Guide

You can view the program from the GUIDE.

- The GUIDE function will only work when you are receiving digital programming only.
- The GUIDE will not show the correct time and date if you have not performed the set clock function on your television. See page 56.

OSD Information

Weak Signal

This OSD warning appears when the digital channel that you have selected is too weak to receive or no signal is being detected for that channel.



No Program

If the TV channel you selected, or were watching is not receiving a signal, "NO PROGRAM" appears on the television screen. It appears when that channel is not receiving a signal and you have the Noise Muting function OFF and you have a single screen. It moves automatically every two seconds to prevent the screen from burn-in. See page 6.

Note:

• Even if "NO PROGRAM" appears on the screen, your timer functions and auto shut off functions that you set, are still active.

Troubleshooting

PROBLEMS	СНЕСК			
There is no power	 See if the power cord became unplugged. Check for a blown fuse or circuit breaker or a power outage. 			
There is no picture or sound	 The antenna could be disconnected. The input mode could be set improperly. See page 50. The tuner (Auto Tuner Setup) could be set improperly. See page 33. The TV station may be having difficulties. Check to see if other stations are working. 			
Remote control is not operating properly or at all	 Check to see that the batteries are still working and properly installed. Make sure the remote has a clear sight path to the TV. Check that the TV/CATV switch is in the proper position. You may be too far from the TV. You must be within 23 feet (7 meters). 			
You cannot select a certain channel	 Make sure the channels have been programmed. See "Channel Summary", page 34. Check to see if the channel is locked. See "Channel Summary - Lock" page 35. 			
The power turns off by itself	 Make sure the set did not become unplugged. Perhaps the On/Off Timer is set. See page 57. Check to see if the Sleep Timer was set. See page 61. 			
The clock is wrong	The power was interrupted and the clock was not reset. See page 56.			
The color quality is poor	 Tint and Color may be improperly adjusted. See page 53. The Video Status mode may be turned to the wrong setting. See page 67. 			
There are lines across the picture	 There could be interference from another electrical appliance, such as a computer, another TV or VCR. Move any such appliances further away from the TV. 			
The picture is spotted	 There could be interference from a high-wattage appliance, like a hairdryer or vacuum, operating nearby. Move the antenna away from the appliance or change to a coaxial cable connection which is less prone to interference. 			
There are double pictures (ghosts)	 A building or passing airplane can reflect the original signal and produce a second, slightly delayed one. Adjust your antenna position. 			
Picture is snowy (image noise)	 Your antenna may be damaged, disconnected or turned. Check the antenna connection. If the antenna is damaged, replace it. 			
Screen is 40% black	The Closed Caption Text mode is on. Turn it off in the Closed Caption Menu, page 46.			
Stereo or bilingual programs can't be heard	Make sure the MTS settings are correct. See page 61.			
Static electricity	It is normal to feel static electricity if you brush or touch the screen.			
You hear occasional crackling sounds	 It is normal for the TV to make crackling sounds when first turned on or off. Unless the sound or picture become abnormal, this is fine. 			
The square appears and blinking	 It appears when you are operating the Auto Convergence. If not, then this may be a problem with the Auto Convergence. Contact a service agent. 			
It does not operate correctly	 Press the CHANNEL- and VOLUME- buttons on the front panel of the TV simultaneously for a few seconds. The Digital Tuner will be reset. If this does not reset it correctly, unplug the power cord and plug it back in. 			

****	*****	*******	****	******	*******	*********
	LIMITED					COLOR TV 1-1
For Canadian mod						
JVC COMPANY OF AMERICA (TO THE ORIGINAL RETAIL PUR the date of original purchase fo FOR DIRECT-VIEW COLOR TEL	CHASER to be FRE r the period shown EVISION, PICTURE Parts	E FROM DE below. ("Th TUBE is cov	FECTIV e Warra rered for	E MATERIAL anty Period") Two(2)years.	.S ÁND WORKI	
r r	1 YE	AR		YEAR		
THIS LIMITED WARRANTY IS V.		FIFTY (50) I	JNITED	STATES, TH	E DISTRICT O	F COLUMBIA AND
WHAT WE WILL DO: If this product is found to be defective within the warranty period, JVC will repair or replace defective parts with new or rebuilt equivalents at no charge to the original owner. Such repair and replacement services shall be rendered by JVC during normal business hours at JVC authorized service centers. Parts used for replacement are warranted only for the remainder of the Warranty Period. All products may be brought to a JVC authorized service center on a carry-in basis. Color televisions with a screen size of 27° or greater qualify for in-home service. In such cases, a technician will come to your home and either repair the TV there or remove and return it if it cannot be repaired in your home.						
WHAT YOU MUST DO FOR WA	RRANTY SERVICE	:				
Please do not return your produc instead, return your product to to center, please be sure to packag the problem(s). Please call 1-64 can also be obtained from our w representative will require clear	he JVC authorized je it carefully, prefe 0-252-5722 to loca rebsite <u>http://www.j</u> access to the prod	erably in the ite the nearc <u>ivc.com.</u> If yo uct.	original est JVC our prod	packaging, a authorized s luct qualifies	and include a b service center. for in-home s	rief description of Service locations ervice, the service
If you have any questions cond 800-252-5722	cerning your JVC I	Product, ple	ase con	tact our Cus	stomer Care C	enter at
 If you have any questions concerning your JVC Product, please contact our Customer Care Center at 800-252-5722 WHAT IS NOT COVERED: This limited warranty provided by JVC does not cover: Products which have been subject to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, or if repaired or serviced by anyone other than a service facility authorized by JVC to render such service, or if affixed to any attachment not provided with the products, or if the model or serial number has been altered, tampered with, defaced or removed; Initial installation, installation and removal from cabinets or mounting systems. Operational adjustments covered in the Owner's Manual, normal maintenance, video and audio head cleaning; Damage that occurs in shipment, due to act of God, and cosmetic damage; Signal reception problems and failures due to line power surge; Kideo Pick-up Tubes/CCD Image Sensors are covered for 90 days from the date of purchase); Batteries (except that Rechargeable Batteries are covered for 90 days from the date of purchase); Batteries (except that Rechargeable Batteries are covered for 90 days from the date of purchase); Droducts used for commercial purposes, including, but not limited to rental. 						
9. Products used for commercial There are no express warranties	•••					
THE DURATION OF ANY IMPLIE LIMITED TO THE DURATION OF				LIED WARR	ANTY OF MER	CHANTABILITY, IS
VIC SHALL NOT BE LIABLE FOR ANY LOSS OF USE OF THE PRODUCT, INCONVIENCE, OR ANY OTHER DAMAGES, WHETHER DIRECT, INCIDENTAL OR CONSEQUENTAL (INCLUDING, WITHOUT LIMITATION, DAMAGE TO TAPES, RECORDS OR DISCS) RESULTING FROM THE USE OF THIS PRODUCT, OR ANSING OUT OF ANY BREACH OF THIS WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE WARRANTY PERIOD SET FORTH ABOVE.						
C Some states do not allow the exclusion of incidental or consequential damages or limitations on how long an implied warranty lasts, so these limitations or exclusions may not apply to you. This warranty gives you specific glegal rights and you may also have other rights which vary from state to state.						
JVC COMPANY OF AMERICA 1700 Valley Road DIVISION OF JVC AMERICAS CORP. Wayne, NJ 07470 http://www.jvc.com						
****	*****	******	****	******	******	*****
REFURBISHED PRODUCTS CARRY A SEPARATE WARRANTY, THIS WARRANTY DOES NOT APPLY. FOR DETAIL OF REFURBISHED PRODUCT WARRANTY, PLEASE REFER TO THE REFURBISHED PRODUCT WARRANTY INFORMATION PACKAGED WITH EACH REFURBISHED PRODUCT.						
For customer use:						
For customer use: Enter below the Model No, and Serial No, which is located either on the rear, bottom or side of the cabinet, Retain this information for future reference.				e cabinet,		
Model No. : Serial No. :						
Purchase date : Name of dealer :						

TO OUR VALUED CUSTOMER -

THANK YOU FOR PURCHASING THIS JVC PRODUCT. WE WANT TO HELP YOU ACHIEVE A PERFECT EXPERIENCE.

NEED HELP ON HOW TO HOOK UP? NEED ASSISTANCE ON HOW TO OPERATE? NEED TO LOCATE A JVC SERVICE CENTER? LIKE TO PURCHASE ACCESSORIES?

JVC[®] IS HERE TO HELP! TOLL FREE: 1(800)252-5722 http://www.jvc.com

Remember to retain your Bill of Sale for Warranty Service.

Do not attempt to service the product yourself

Caution

To prevent electrical shock, do not open the cabinet. There are no user serviceable parts inside. Please refer to qualified service personnel for repairs.

Specifications

Model	AV-48P776 AV-48P786	AV-56P776 AV-56P786				
Туре	Rear Proje	Rear Projection Television				
Reception Format		NTSC, BTSC System (Multi-Channel Sound) ATSC Terrestrial, Digital Cable				
Reception Range	and Ultra bands (181 channel freq • Reception of channel A-5 ("95" d	 VHF 2 to 13, UHF 14 to 69 CATV 125 Sub, Mid, Super, Hyper and Ultra bands (181 channel frequency synthesizer system) Reception of channel A-5 ("95" of the TV set's on-screen cable channel numbers) is not recommended for your TV set. 				
Power Source	AC 120	√, 60 Hz				
Power Consumption	25	9W/				
Screen Size	48 inch / 122 cm measured diagonally, 16:9 ratio	56 inch / 142 cm measured diagonally, 16:9 ratio				
Speakers	13 cn	13 cm round X 2				
Audio Output	Full Rang	Full Range - 10W + 10W				
Antenna Terminal (VHF/UHF, ATSC/DIGITAL CABLE IN)	75 ohms (VHF/U	75 ohms (VHF/UHF)(F-type connector)				
External Input Jacks		Video: 1 Vp-p, 75 ohms Audio: 500 mVrms (-4dBs) high impedance				
Component Input Jack		Y: 1Vp-p positive, 75 ohms (negative sync provided) Pb/Pr: 0.7 Vp-p 75 ohms				
S-Video Input Jacks		Y: 1Vp-p positive, 75 ohms (negative sync provided) C: 0.286 Vp-p (burst signal), 75 ohms				
Audio Output Jacks (FIX)	500mVrms (-4dBs) Low impeda	500mVrms (-4dBs) Low impedance (1000 Hz when modulated 100%)				
Optical Output Digital Audio	Digital O	Digital Out (optical) x 1				
Digital-In	HDMI jack x 1 Note: The Digital–In terminal is r personal computer	Note: The Digital-In terminal is not compatible with picture signals of a				
Dimensions (inch) W X H X D (cm)	47 1/4 x 48 7/6 x 24 1/2 120 x 116.9 x 82.2	56 7/8 x 51 1/8 x 28 3/8 136.6 x 129.6 x 66.7				
Weight (lbs / kg)	170 / 77	184 / 83.5				
Accessories	remote control un	remote control unit x 1 / AA batteries X 2				

Specifications subject to change without notice.

Note:

 The open source software is embedded in this product. For more information, please go to: http://software.jvc.com/opensource/lnx/DP/05_AtscQuam/download.html

JVC COMPANY OF AMERICA

Division of JVC Americas Corp. 1700 Valley Road Wayne, New Jersey, 07470



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