

Color Television

Owner's Manual

TXJ1371/1971/1366/1966/1396/1996/1367 TXH1372/1373/1386/1970/1972/1973/1986 14S1/20S1/3355/5055/5355/331E/501E 33H1/50H1/331F/331H/501H/338C/508C 3338/5038/33395039/3373/5073/3385/5085 3366/5066/14F2/20F2/14R1/20R1/2038/21S1 333E/503E/501F/142F/202F/211S/141S/201S 20H3/14H3/20F2N/14F3N/15K8



Warning! Important Safety Instructions

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION:

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



This symbol indicates high voltage is present inside. It is dangerous to make any kind of contact with any inside part of this product.



This symbol alerts you that important literature concerning operation and maintenance has been included with this product.

Note to CATV system installer: This reminder is provided to call CATV system installer's attention to Article 820-40 of the National Electrical Code (Section 54 of Canadian Electrical Code, Part I), 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.

Caution: FCC regulations state that any unauthorized changes or modifications to this equipment may void the user's authority to operate it.

Caution: To prevent electric shock, match the wide blade of plug to the wide slot, and fully insert the plug.

Important: One Federal Court has held that unauthorized recording of copyrighted TV programs is an infringement of U.S. copyright laws.

To prevent damage which may result in fire or electric shock hazard, do not expose this appliance to rain or moisture.

(Option)

As an ENERGY STAR Partner, Samsung Electronics America, Inc. has determined that this product or product model meets the ENERGY STAR guidelines for energy efficiency.

Important Safety Information



Always be careful when using your TV receiver. To reduce the risk of fire, electrical shock, and other injuries, keep these safety precautions in mind when installing, using, and maintaining your machine.

- Read all safety and operating instructions before operating the TV receiver.
- Retain the safety and operating instructions for future reference.
- Heed all warnings on the TV receiver and in the operating instructions.
- Follow all operating and use instructions.
- Unplug the TV receiver from the wall outlet before cleaning. Use a damp cloth; do not use liquid or aerosol cleaners.
- Never add any attachments and/or equipment without approval of the manufacturer. Such additions may result in the risk of fire, electric shock, or other personal injury.
- Do not use the TV receiver where contact with or immersion in water is a possibility, such as near bath tubs, sinks, washing machines, swimming pools, etc.
- Provide ventilation for the TV receiver. The unit is designed with slots in the cabinet for ventilation to protect it from overheating.
 Do not block these openings with any object, and do not place the TV receiver on a bed, sofa, rug, or other similar surface. Do not place it near a radiator or heat register. If you place the TV receiver on a rack or bookcase, ensure that there is adequate ventilation and that you've followed the manufacturer's instructions for mounting.

Important Safety Information, continued

- Do not place the TV receiver on an unstable cart, stand, tripod, bracket, or table. The TV receiver may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the TV receiver. Follow the manufacturer's instructions when mounting the unit, and use a mounting accessory recommended by the manufacturer. Move the TV receiver and its cart with care. Quick stops, excessive force, and uneven surfaces may cause the unit and cart to overturn.
- Operate your TV receiver only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your appliance dealer or local power company.
- Protect the power cord. Power supply cords should be routed so that they are unlikely to be walked on or pinched by items placed on or against them. Pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the unit.
- Unplug the TV receiver from the wall outlet and disconnect the antenna or cable system during a lightning storm or when left unattended and unused for long periods of time. This will prevent damage to the unit due to lightning and power-line surges.
- Avoid overhead power lines. An outside antenna system should not be placed 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, be extremely careful to keep from touching the power lines or circuits. Contact with such lines can be fatal.
- Do not overload the wall outlet or extension cords. Overloading can result in fire or electric shock.
- Do not insert foreign objects through openings in the unit, as they
 may touch dangerous voltage points or damage parts. Never spill
 liquid of any kind on the TV receiver.
- Ground outdoor antennas. If an outside antenna or cable system is connected to the TV receiver, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No.70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.
- Do not attempt to service the TV receiver yourself. Refer all servicing to qualified service personnel. Unplug the unit from the wall outlet and refer servicing to qualified service personnel under the following conditions:

Important Safety Information, continued

- when the power-supply cord or plug is damaged
- if liquid has been spilled on or objects have fallen into the unit
- if the TV receiver has been exposed to rain or water
- if the TV receiver does not operate normally by following the operating instructions
- if the TV receiver has been dropped or the cabinet has been damaged
- when the TV receiver exhibits a distinct change in performance If you make adjustments yourself, adjust only those controls that are covered by the operating instructions. Adjusting other controls may result in damage and will often require extensive work by a qualified technician to restore the TV receiver to normal.
- When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original part. Unauthorized substitutions may result in additional damage to the unit.
- Upon completion of any service or repairs to this TV receiver, ask the service technician to perform safety checks to determine that the TV receiver is in a safe operating condition.

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

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

This television receiver provides display of television closed captioning in accordance with §15.119 of the FCC rules.

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CHAPTER ONE YOUR NEW TV

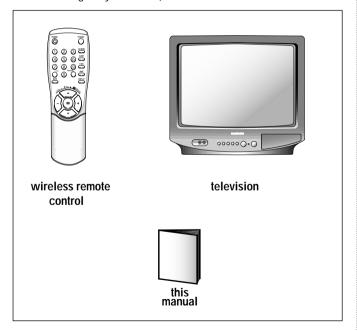
List of features

Your Samsung TV was designed and engineered using the latest technology. This TV is a full-featured, high-performance unit that not only meets, but exceeds, industry standards. Along with the standard features you expect, Samsung has included the following special features:

- · Easy-to-operate remote control
- Easy-to-use on-screen menu system you can use from the front panel or the remote control
- Automatic timer to turn the TV on and off at any time you choose
- Special picture settings, pre-set at the factory for the highest resolution
- · Automatic channel tuning for up to 181 channels
- A previous channel button to quickly see the last channel you were viewing
- · Fine tuning control for the sharpest picture possible
- · A special sleep timer
- Tri-lingual on-screen displays (English, Spanish, and French)

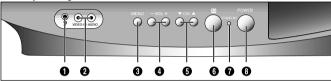
Checking parts

Once you have unpacked your TV, check to make sure that you have all the parts shown here. (The TV figure shown does not necessary match the design of your TV set).



Learning about your new TV

Front panel jacks, buttons and indicators



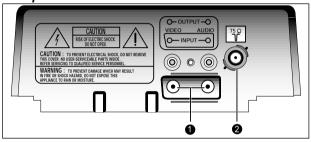
EARPHONE jack (Option)

Connect a set of external earphones to this jack for private listening.

- VIDEO and AUDIO input jacks (Option)
 Use these jacks to connect a camcorder or video game.
- MENU
 Press to see an easy-to-use on-screen menu of your TV's features.
- VOL and VOL +
 Press to change the volume or to change features on the menu.
- G CH ▼ and CH ▲ Press to change channels or to select features on the menu.
- Remote Control Sensor Aim the remote control towards this spot on the TV.
- **TAND BY**Lights up when you turn the power off.
- Lights up when you turn the power off.

 POWFR
- Press to turn the TV on or off.
- ✓ The front panel buttons control basic features, including the on-screen menu system. To use the more advanced features, you will need the remote control.

Rear panel



- VIDEO and AUDIO input jacks
 Use these jacks to connect a VCR or other video equipment.
- **2** VHF/UHF Antenna terminal Use this terminal to connect an outdoor antenna or cable system.
- ✓ For information on connecting equipment, please see page 10.

4 Chapter One: Your New TV

Learning about your new TV, continued

Remote control (TYPE 1)

You can use the remote control up to a distance of about 23 feet from the TV. When using the remote, always point it directly at the TV.

1 POWER

nels on the TV.

- Press to turn the TV on and off.
- TV/VIDEO Press to watch TV picture and a picture from a connected component (VCR, LDP
- etc.).

 Number buttons
 Press to directly select chan-
- 4 +100
 Press to directly select channels over 100. For example, to select channel 121, press +100, then press 2 and 1.
- **6** CH ▲ and CH ▼ (Channel) Press CH ▲ or CH ▼ to change channels. Also use with the on-screen menu system.

O DISPLAY

Press to see the time, channel, etc., on-screen. Also press to exit (quit) the menu system.

SURF

Press when viewing a channel to automatically return to that channel after an amount of time that you set.

P-STD

Press to adjust the TV picture by selecting one of the special factory settings or your own custom setting.

MUTE

Press to mute (silence) the volume.

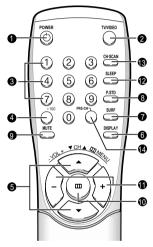
10 MENU

Press this button to see the easy-to-use menu system.

- VOL and VOL + (Volume) Press VOL – to lower the volume; press VOL + to raise the volume. Also use with the menu system.
- SLEEP

Press for the TV to automatically turn off after an amount of time that you set.

- (S CH.SCAN (Channel Scan)
 Press to have the TV automatically scan all of the channels it has memorized.
- PRE-CH (Previous Channel) Press to see the last channel you were watching.



For models: TXJ1371/1971/1366/1966/1367/ TXH1372/1373/1970/1972/ 331E/501E/33H1/50H1/331F/ 331H/501H/3338/5038/3339/ 5039/3373/5073/3385/5085/ 3366/5066/5055/5355/3355/ 338C/508C/14S1/20S1/14F2/ 20F2/14R1/20R1/2038/21S1/ 333E/503E/501F/142F/202F/ 211S/141S/201S/20H3/14H3/ 20F2/N/14F3N/15K8

YOUR NEW TV

Learning about your new TV, continued

Remote control (TYPE 2)

You can use the remote control up to a distance of about 23 feet from the TV. When using the remote, always point it directly at the TV. You can also use your remote control to operate most VCR's and cable boxes.

For more information, see page 8.

POWER

Press to turn the TV on and off.

2 Number buttons

Press to directly select channels on the TV.

SLEEP

Press for the TV to automatically turn off after an amount of time that you set.

ADD

Press to add channels or to add features while working with the on-screen menus.
✓The ADD button does not work for this TV set. (Function not used)

6 ERASE

Press to erase channels or to canel features while working with the on-screen menus.

✓The ERASE button does not work for this TV set.

(Function not used)

+100

Press to directly select channels over 100. For example, to select channel 121, press +100, then press 2 and 1.

REW(Rewind)

Press to rewind a tape in your VCR.

REC

Press to begin recording with your VCR.

STOP

Press to stop a tape in your VCR.

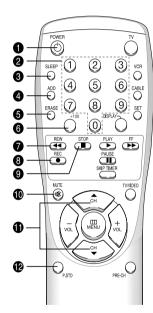
10 MUTE

Press to mute (silence) the volume.

⊕ CH ▲ and CH ▼ (Channel)
 Press CH ▲ or CH ▼ to change channels. Also use with the on-screen menu system.

P-STD

Press to adjust the TV picture by selecting one of the special factory settings or your own custom setting.



For models: TXH1386/1986/1973/ TXJ1396/1996

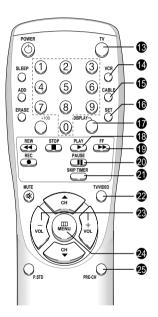
Learning about your new TV, continued

Remote control (TYPE 2)

- TV Press to use your remote control to operate your TV.
- VCR Press to use your remote control to operate your VCR.
- **© CABLE**Press to use your remote control to operate a cable box.
- Use this button when you are setting up your remote control to operate your VCR or cable box
- DISPLAY
 Press to see the time, channel, etc., on-screen. Also press to exit (quit) the menu system.

- PLAY Press to play the tape in your VCR
- **(9) FF (Fast Forward)** Press to fast forward the tape in your VCR.
- PAUSE Press to pause your VCR's tape.
- SKIP TIMER Press when viewing a channel to automatically return to that channel after an amount of time that you set.
- TV/VIDEO Press to switch between a TV picture and a picture from a connected component (VCR.LDP etc.).

- VOL and VOL + (Volume) Press VOL – to lower the volume; press VOL + to raise the volume. Also use with the menu system.
- MENU Press this button to see the easy-to-use menu system.
- PRE-CH (Previous Channel) Press to see the last channel you were watching.



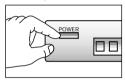
For models: TXH1386/1986/1973/ TXJ1396/1996

Setting Up Your Remote Control

Your Samsung TV comes equipped with a "universal" remote control. This remote not only operates your Samsung TV, but it can operate most VCR's and cable boxes as well, even if your VCR and cable box are made by other manufacturers. Before you can do this, however, you have to "set up" the remote.

Setting Up Your Remote Control to Operate Your VCR

1 Turn off your VCR.



- 2 On your Samsung remote control, press SET.
- 3 Press the VCR button on the top right of your remote control.
 - ✓ Your remote control has three "modes": the "TV" mode, the "VCR" mode, and the "CABLE" mode. Pressing the "VCR" button puts the remote control in the "VCR" mode.
- Enter both digits of the VCR code listed on the next page for your brand of VCR.
 - ✓ Make sure you enter both digits of the code, even if the first digit is a "0". If there is more than one code listed, try the first one.

- 4 Aim the remote control at the VCR. Press POWER on the remote control. Your VCR should turn on. If your VCR turns on, your remote control is now "Setup" correctly
 - ✓ If your VCR does not turn on, repeat steps 2, 3, and 4, but try one of the other codes listed for your brand of VCR.

If no other codes are listed, try each VCR code, oo through 72.

- Once your remote control is set up, press the VCR button any time you want to use the remote to operate your VCR.
 - ✓ When your remote control is in the "VCR" mode, the volume buttons still control your TV's volume.

When your remote is in the "TV" mode, the VCR control buttons (PLAY, PAUSE, etc.) will still operate your VCR.

VCR Codes

s	Aiwa 00	Memorex 00, 09, 11	Sanyo 19, 20, 43
- 1	Akai 15, 22, 26, 30, 45, 66	13, 20, 21, 43	Scott 47, 53, 58, 60
	Anam 71, 72	MGA 17, 30	Sears 09, 11, 16, 19
	Broksonic 47, 53, 59	Minolta 16, 44	20, 27, 33, 43, 44
	Capehart 05	Mitsubishi 30, 37, 52, 61, 66	Sharp 21, 31
	Canon/ Curtis Mathes 09	Mitsubishi (Unified) 17	Shintom 36
	Craig 20, 65,67	MTC 00, 65	Sony 02, 06, 07, 08, 09
	Daewoo 03, 05,18, 39, 68, 70	Multitech 00, 36	STS 16
	Daytron 05	NAD 28	Sylvania 09, 17, 46
	Dynatech 00, 21	NEC 12, 14, 15, 23, 34	Symphonic 00
	Emerson 00, 01, 10, 11, 30, 35	Optonica 21, 31	Tandy 00, 43
	40, 47, 53, 56, 57, 59, 60	Panasonic 09, 63	Tatung 15
	Fisher 20, 27, 33, 43	Penney 09, 12, 14, 16, 65	Teac 00, 15
	Funai 00	Pentax 16, 32, 44	Technics 09
	GE 09, 29, 32	Philco 09	Teknika 00, 09, 11, 25
	LG 04, 11, 12	Philips 09, 31, 38, 46	TMK 10
	Harman/Kardon 12, 37	Pilot 11	Totevision 11, 65
	Hitachi 00, 15, 16, 32, 44, 51, 64	Pioneer Unified 28, 34	Toshiba 17, 18, 33, 58, 60
	JCL 09	Portland 05	Unitech 65
	Jensen 15	Pulsar 13	Vector Research 12, 14
	JVC 15, 34, 55	Quartz 19, 49	Victor 34
	Kenwood 15, 19, 34	Quasar 09, 41	Video Concepts 14, 30, 62
	Lloyd 00	RCA 09, 16, 32, 44, 48, 54	Videosonic 65
	Logik 36	RCA (Unified) 29	Wards 00, 09, 16, 20, 21
	LXI 11	Realistic 00, 09, 11, 19, 20	31, 36, 48, 60, 65
	Magnavox 09, 38, 42, 46, 48	21, 31, 33, 43, 65	Yamaha 12, 15
	Marantz 09, 12, 38, 50	Ricoh 08	Zenith 07, 08
	Marta 11	Samsung 18, 24, 26, 65	Zenith (Unified) 13
	MEI 09	Sansui 15, 34, 67	

Setting Up Your Remote Control, continued

Setting Up Your Control to Operate Your Cable Box

Turn off your cable box.



- 2 On your Samsung remote control, press SET.
- 3 Press the CABLE button on the top right of your remote control.
 - ✓ Your remote control has three "modes": the "TV" mode, the "VCR" mode, and the "CABLE" mode. Pressing the "CABLE" button puts the remote control in the "CABLE" mode.
- Enter both digits of the CABLE box code listed below for your brand of cable box
 - ✓ Make sure you enter both digits of the code, even if the first digit is a "0". If there is more than one code listed, try the first one.
- Aim the remote control at the cable box. Press POWER on the remote control. Your cable box should turn on. If your cable box turns on, your remote control is now "Setup" correctly
 - ✓ If your cable box does not turn on, repeat steps 2, 3, and 4, but try one of the other codes listed for your brand of cable box.

If no other codes are listed, try each cable box code, oo through 35.

- Once your remote control is set up, press the CABLE button any time you want to use the remote to operate your cable box.
 - ✓ When your remote control is in the "CABLE" mode, the volume buttons still control your TV's volume.

Also, the VCR control buttons (PLAY, PAUSE, etc.) will still operate your VCR.

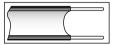
Cable Box Codes

ABC 0, 07, 09, 12	Paragon	00	Starcom	02, 11, 19, 23
Antronix 26	Pioneer	16, 25, 31	Stargate	11, 18
Archer 26	Pulsar	00	Tandy	29
Comtronics 18	RCA	15	TeleCaption	27
Eagle Comtronics 18	Realistic	26	Texscan	22
Eastern 01	Regal	14, 30, 32, 34	Tocom	08, 09, 21
Gemini 11	Regency	01	Toshiba	00
General Instruments 07	Samsung	18, 25	Unika	26
Hamlin 06, 14, 30, 32	Scientific Atlanta	03, 05, 12, 33	United Artists	04
Hitachi 07	Signal	18	United Cable	02
Jerrold 02, 07, 10, 11, 19, 23	Signature	07	Universal	26
Memorex 00	SL Marx	18	Viewstar	29
Oak 04, 13, 28	Sprucer	15, 35	Zenith	00, 20
Panasonic 15, 24				

Connecting VHF and UHF antennas

If you do not have cable TV, you will need to connect an antenna to your TV. To connect an antenna, follow the instructions in one of the following sections.

• If your antenna has a set of leads that look like the illustration below, see "Antennas with 300-ohm Flat Twin Leads," on this page.



 If your antenna has one lead that looks like the illustration below, see "Antennas with 75-ohm Round Leads," on page 11.

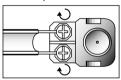


 If you have two antennas, see "Separate VHF and UHF Antennas," on page 11.

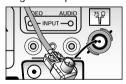
Antennas with 300-ohm flat twin leads

If you are using an off-air antenna (such as a roof antenna or rabbit ears) that has 300-ohm twin flat leads, follow the directions below.

• Place the wires from the twin leads under the screws on the 300-75 ohm adapter. Use a screwdriver to tighten the screws.



2 Plug the adapter into the terminal on the bottom of the back panel.



INSTALLATION

Connecting VHF and UHF antennas, continued

Antennas with 75-ohm round leads

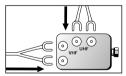
Plug the lead into the terminal on the bottom of the rear panel.



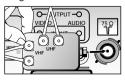
Separate VHF and UHF antennas

If you have two separate antennas for your TV (one VHF and one UHF), you must combine the two antenna signals before connecting the antennas to the TV. This procedure requires a combiner attachment. You'll find the type of combiner you need at an electronics store.

1 Connect both antenna leads to the combiner.



2 Plug the combiner into the terminal on the bottom of the rear panel.



Connecting cable TV

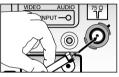
Choose one of the sections below for connecting a cable system.

✓ This TV is cable-ready; you don't need a converter for basic cable channels.

Cable without a Converter Box

To connect cable without a converter box:

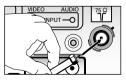
1 Plug the incoming cable into the TV's antenna terminal.



Cable with a Converter Box

To connect cable with a converter box to descramble channels:

- Find the cable that is connected to the ANTENNA OUT (also named ANT OUT, VHF OUT, or, OUT) terminal on your converter box.
- 2 Connect the other end of this cable to the TV's antenna terminal.



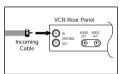
✓ If you only need to use the cable box to descramble a few channels, contact your cable company for suggestions on alternate connections.

INSTALLATION

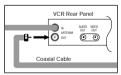
Connecting a VCR

These instructions assume that you have already connected a cable or antenna to your TV., according to to the instructions beginning on page 10. If you haven't, you can skip step 1.

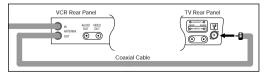
- ✓ The coaxial, audio and video cables mentioned in the steps below are usually included with a VCR. You can also purchase them at your local electronics store.
- 1 Unplug the cable or antenna from the back of the TV.
- 2 Connect the cable or antenna to the VCR's ANTENNA IN terminal.



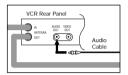
3 Connect a coaxial cable to the VCR's ANTENNA OUT terminal.



4 Connect the other end of the cable to the TV's antenna terminal.



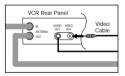
5 Connect an audio cable to the VCR's AUDIO OUT terminal.



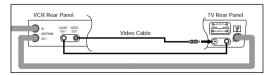
6 Connect the other end of the cable to the TV's AUDIO IN terminal.



• Connect a video cable to the VCR's VIDEO OUT terminal.



8 Connect the other end of the cable to the TV's VIDEO IN terminal.



INSTALLATION

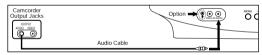
Connecting a camcorder (Option)

You can connect a camcorder to your TV, which enables you to view camcorder tapes without a VCR.

- ✓ The audio and video cables mentioned in the steps below are usually included with a camcorder. You can also purchase them at your local electronics store.
- 1 Locate the camcorder's A/V output jacks on the camcorder.
- 2 Connect an audio cable to the camcorder's AUDIO OUT terminal.



3 Connect the other end of the cable to the TV's AUDIO IN terminal.



4 Connect a video cable to the camcorder's VIDEO OUT terminal.

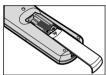


5 Connect the other end of the cable to the TV's VIDEO IN terminal.



Installing batteries in the remote control

Pull the cover to the full to take it out



Install two AA size batteries. Make sure to match the + and
 ends of the batteries with the diagram inside the compartment.



3 Replace the lid.

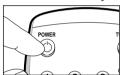


- ✓ Remove the batteries and store them in a cool, dry place if you won't be using the remote control for a long time.
- ✓ The remote control can be used up to about 23 feet from the TV.
- Batteries last for about one year.

Turning the TV on/off

To turn your TV on or off:

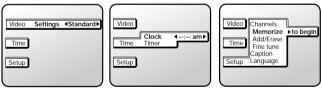
Press POWER on the remote control or on the front panel. The TV turns on and you will be ready to use the menus.



Viewing the menus

Your Samsung TV has a simple, easy-to-use menu system that appears on the TV screen. This system makes it simple and fast to use features on the TV. Please take a few moments to learn how to use the menus.

- With the TV's power on, press the MENU button. The main menu appears on the screen. The Video menu is highlighted.
 - ✓ All on-screen displays and menus disappear from the screen in less than twenty seconds.
- With the main menu on the screen, press MENU repeatedly. You will cycle through the Video menu, the Time menu, and the Setup menu.



Video menu

Time menu

Setup menu

✓ If you press MENU while the Setup menu is on the screen, the menus will disappear from the screen. Simply press MENU again to bring the menus back onto the screen.

Seeing Special Help

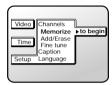
In certain situations, your Samsung TV will automatically display messages to guide you in operating it correctly.

- If you press the TV/VIDEO button without first connecting a VCR or camcorder, you will see the message "Connect the A/V Jacks."
 - ✓ For more information about viewing a VCR or camcorder tape, see page 22.

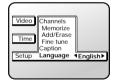
Selecting the menu language

You can display the TV menus in English, Spanish, or French.

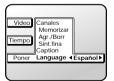
• Press MENU repeatedly until you see the Setup menu.



2 Press CH ▼ until "Language" is highlighted.



3 Press – VOL or VOL + to select either English, Spanish, or French.



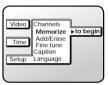
4 Press DISPLAY to exit the menus.

Memorizing the channels

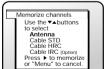
Storing channels in memory

Your TV can memorize and store all of the channels you can receive. Once these channels are in memory, you can use the CH ▲ and CH ▼ buttons to quickly scan through the available channels.

• Press MENU repeatedly until you see the Setup menu.



② Press VOL+. You will see a screen for selecting the kind of antenna or cable system you connected. If you connected an antenna, leave "Antenna" highlighted. If you connected cable, press CH ▼ to highlight the type of cable you have: STD, HRC, or IRC.



✓ CT-331FZ/CT-501EZ/CT-2038Z/CT-20F2N/CT-14F3N models for military market has a "AFN" channel instead of a "Cable IRC" channel.

As you press the **CH** ▼, the followings are selected one after:

Antenna → STD → HRC → AFN → Antenna

- ✓ If you are not sure which type of cable system you have, contact your cable company.
- 3 Press VOL +. The TV will begin memorizing all of the stations.

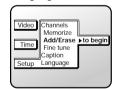
The TV cycles through the channel numbers and memorizes the available channels. This takes one to two minutes. When the TV is finished, it will display the "Memorize channels" screen.

- ✓ Press MENU at any time to interrupt the memorization process and return to normal viewing.
- Press MENU twice to clear the screen.

Adding and Erasing Channels

A channel can be manually added to or erased from memory.

● Press MENU repeatedly until you see the Setup menu. Press CH ▼ to highlight "Add/Erase."



Press VOL +. You will see the Add/Erase menu screen.



16 CHAPTER THREE: TV OPERATION

Memorizing channels, continued

Press CH ▲ or CH ▼ to select a channel. Press VOL+ to add the channel or -VOL to erase the channel.

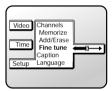


- ✓ You can also use the number buttons to enter the channel number.
- When you are finished, press the MENU button twice to return to normal viewing.
 - ✓ You can still view a channel that is not stored in memory. To do so, use the number buttons on the remote control to select the channel.

Fine tuning channels

You can fine tune a channel to make it come in clearer.

- **1** Press CH \blacktriangle , CH \blacktriangledown , or the number buttons to select a channel.
- ② Press MENU repeatedly until you see the Setup menu. Press CH ▼ until you select "Fine tune."



Press –VOL and VOL+ until the channel becomes as clear as possible.



- ✓ When the "slide box" displays a single vertical line, this indicates the "average" fine tuning setting.
- **4** Press **DISPLAY** or **MENU** to clear the menus from the screen.

Changing channels

For your convenience, Samsung provides several different ways to change channels on your TV.

Using the channel buttons

Press the CH ▲ or CH ▼ buttons to change channels.

When you press $CH \triangle$ and $CH \nabla$, the TV tunes in each channel in order, up or down. With this method, you will see all channels that the TV has memorized. You will not see channels that were not memorized, or that you erased.

Directly accessing channels

You can use the number buttons to quickly go to any channel.

- Press the number buttons to go directly to a channel. For example, to select channel 27, press "2," then "7." The TV will change channels when you press the second number.
 - ✓ When you use the number buttons, you can also directly tune to channel that you have erased or that was not memorized by the TV.
- If you want to select a channel over 100, press the +100 button on the remote control. For example, to see channel 122, press "+100," then "2," then "2."
 - ✓ To change to single-digit channels (1–9) faster, press "0" before the single digit. For example, to change to channel "4," press "0," then "4."

Scanning the channels

You can automatically scan all of the channels in memory at the touch of just one button.

- Press the CH.SCAN button on the remote control.
 - The TV will change the channels automatically, one by one.
 - ✓ To stop channel scan, press any button.

Selecting the previous channel

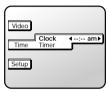
The previous channel feature lets you easily select the channel that you were previously watching.

- Press the PRE-CH button on the remote control.
 - The TV changes to the last channel you were watching.
 - ✓ You can easily switch between two channels that are "far apart." To do this, tune to one channel, then use the number buttons to select the second channel. Then, use the PRE-CH button to quickly switch between channels.

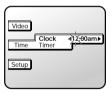
Setting the clock

To set the built-in clock:

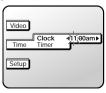
• Press the **MENU** button repeatedly until you see the Time menu.



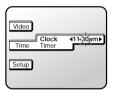
2 Press VOL +



Press the CH ▲ or CH ▼ buttons to select the correct hour. When you have selected the correct hour, press VOL +.



- Make sure that you select the proper time of day: AM or PM. You will see AM or PM to the right of the minutes.
- ◆ Press the CH ▲ or CH ▼ buttons to select the correct minute. When you have selected the correct minute, press DISPLAY to exit the menus.



The clock will now appear every time you press DISPLAY.

Adjusting the volume

Raising or lowering the volumeTo raise or lower the TV's volume:

♠ Press VOL+ to raise the volume or -VOL to lower the volume.

Using Mute

At any time, you can mute (silence) the volume.

- 1 Press the MUTE button and the volume will be silenced. The word "Mute" appears in the lower-left corner of the screen.
- 2 To turn mute off, press MUTE again, or simply raise or lower the volume with the **-VOL** and **VOL**+ buttons.

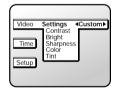
Customizing the picture

You can use the on-screen menus to change the contrast, brightness, sharpness, color, and tint on your TV. To customize your picture:

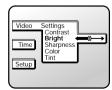
1 Press MENU. You will see the open Video menu.



2 Press -VOL or VOL+ until the word "Custom" appears.



3 Press CH ▼ to select the item you wish to change.



Customizing the picture, continued

Press -VOL or VOL+ to raise or lower the value of the item. For example, when you select "Bright," VOL+ increases brightness; -VOL lowers brightness.



- ✓ You can find the exact mid-point of each setting by adjusting the "slide-box" until it shows a single vertical black line.
- ✓ When you are finished adjusting an item, wait a moment. The gauge will disappear and the Video menu will return.

Using Automatic Picture

This is a special Samsung feature that automatically adjusts your picture for you.

With the power on, press P-STD to select an automatic picture setting.



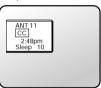
- Choose Standard to set the TV to operate at top performance according to your TV's specifications.
- Choose Sports for viewing the TV during the day or when there is bright light in the room.
- · Choose Movies when viewing movies or VCR tapes.
- Choose Mild when viewing the TV in low light, or when playing video games.
- Choose Custom if you want to adjust the settings yourself.

Viewing the on-screen displays

Your Samsung TV provides you with on-screen displays. To see the displays:

• With the power on, press **DISPLAY**.

The on-screen display will show the channel you are watching, the time of day, and the amount of time left on the sleep timer (if the sleep timer is set).



- ✓ To remove the displays, press DISPLAY a second time.
- ✓ If you are not using Closed Captions, □□ will not appear when you press DISPLAY. Please see page 25.

Setting the sleep timer

The sleep timer allows you to select the length of time your TV remains on before turning off automatically. This is especially convenient if you like to fall asleep with the television on.

- Repeatedly press the SLEEP button to set the amount of time you want the TV to remain on
 - A display will appear in the corner of the screen. You can set the timer for one of the following lengths of time: 10, 20, 30, 60, 90, 120, 150, 180, 210, 240, 270, 300, 330, or 360 minutes.
- 2 To cancel the sleep timer, press **SLEEP** until the on-screen display reads "Off." You can also cancel the sleep timer by turning the TV off, then turning it on again.

Viewing a VCR or camcorder tape

When you connect a VCR or camcorder to your TV with the A/V jacks, you need to adjust your TV. To do this:

- Press the TV/VIDEO button when you wish to view a video tape, a video game, or any signal from equipment connected to the TV's A/V jacks.
 - ✓ If you do not have any equipment connected to the A/V jacks, the TV will display the message, "Connect the A/V jacks."

If you have equipment connected to both the front and the rear A/V jacks, the TV will only display the signal from the front A/V jacks.

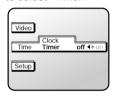
- If you have equipment connected to either the front lacks or the rear jacks (but not both the front and the back), the TV will automatically display the signal from the connected equipment.
- 2 To return to normal TV viewing, press TV/VIDEO again.

CHAPTER FOUR SPECIAL FEATURES

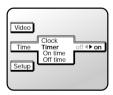
Setting the On/Off Timer

To set the TV to automatically turn on or off at a specific time:

◆ Press MENU repeatedly until you see the Time menu. Press CH ▼ to select "Timer."

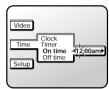


- ✓ Before using the timer, you must set the TV's clock.
- 2 Press VOL+ to set the timer to "on."

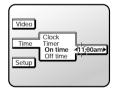


✓ When you later want to turn the timer off, press – VOL to set the timer to "off."

3 Press CH ▼ to highlight "On time." Press VOL +.



Press CH ▲ or CH ▼ to select the hour when you want the TV to turn on.

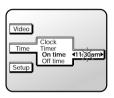


 Make sure the correct time of day (AM or PM) appears to the right of the minutes.

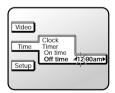
SPECIAL FEATURES

Setting the On/Off Timer, continued

Fress VOL +. Press CH ▲ or CH ▼ to select the minutes when you want the TV to turn on.



- 6 When you are finished, press VOL +.
- If you want to set the Off time, press CH ▼ to highlight "Off time." Set the "Off time" just as you set the "On time."



3 When you are finished setting the timer, press **DISPLAY**.

Using the SURF

This feature allows you to set the TV to return to a particular channel after a certain amount of time. For example, you may be watching a channel when commercials start. You can set the **SURF** to "2 minutes," then switch channels. After 2 minutes, the TV will return to the original channel. To use the **SURF**:

While you are watching the channel to which you want to return, press SURF.

The on-screen display will read "Skip off."

Press SURF again to set the timer in thirty second intervals, up to five minutes.

The time you set will begin counting down on the screen. When the time runs out, the TV will return to the channel you were watching when you set the timer.

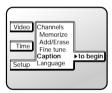


SPECIAL FEATURES

Viewing Closed Captions

Your TV displays the closed captions that are broadcast with some television shows. These captions are usually subtitles for the hearing impaired or language translations. All VCRs record the closed caption signal and most pre-recorded commercial video tapes provide closed captions. Check for the closed caption symbol in your television schedule and on the tape's packaging: CC.

◆ Press MENU repeatedly until you see the Setup menu. Press CH ▼ to select "Caption."



2 Press VOL+ to open the Closed Caption menu.



3 Press VOL + to turn closed captioning on.



- Misspellings and odd characters can occur in captioning. Also, there may be a captioning delay after changing channels. Neither situation is a TV malfunction.
- ◆ Press CH ▼ to highlight "Mode." Press VOL or VOL + to choose "Capt." (captions) or "Text." In caption mode, captions appear and cover a small portion of the picture. In text mode, information unrelated to the program, such as news reports, are displayed and often cover a large portion of the screen.



- If you wish, use CH ▲, CH ▼, or VOL + to change the captioning channel or field. Then, press DISPLAY to return to normal viewing.
 - Different channels and fields display different information, such as additional languages or supplemental information.

Familiárizandose con su nueva TV

Control Remoto

Usted puede usar el control remoto a una distancia de alrededor de 23 pies desde su TV. Al usar el control remoto, siempre apúntelo directamente hacia la TV.

- POWER Oprima para encender o apagar la TV.
- TV/VIDEO

Oprima una vez para mirar programas de TV. Oprima de nuevo para ver la imagen desde su reproductor de video.

- 3 Botones con números Oprima para seleccionar el canal específico en la TV.
- 4 +100 Oprima para seleccionar directamente los canales mayores que 100. Por ejemplo, para seleccionar el canal 121, oprima "+100", luego oprima "2" y "1".

6 CH ▲ CH ▼

Oprima ▲ o ▼ para cambiar canales en la TV.

6 DISPLAY

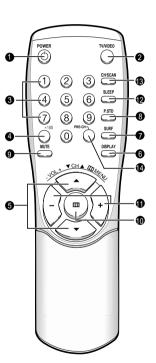
Oprima para mostrar en pantalla el canal actual, el origen de la señal, la programación de encendido, etc.

SURF

Oprima cuando esté mirando un canal para regresar automáticamente a dicho canal después de un período de tiempo especificado por usted.

- P-STD (Imagen-estándar) Oprima para seleccionar configuraciones de imágenes en memoria o estándar.
- 9 MUTE Oprima para silenciar (enmudecer) el volumen.
- MENU Oprima para hacer visualizar el menú principal.

- VOL +
 Oprima –VOL para disminuir
 o VOL+ para aumentar el vol umen de la TV.
- SLEEP Oprima para seleccionar el tiempo para el apagado Automático
- **®** CH. SCAN (Cambiar canales) Oprima para que la TV cambie de canal automaticamente uno por uno.
- PRE-CH (Canal anterior) Oprima para volver rápidamente al último canal de TV que miraba.



Encendido y apagando la TV (Consulte la página 14)

Para encender o apagar la TV:

Oprima POWER

Visualización de los menús (Consulte la página 14)

Su TV Samsung tiene un sistema de menús simple y fácil de usar que aparece en la pantalla de TV.

- 1 Con la TV encendida, oprima MENU.
- 2 Con el menú principal en pantalla, oprima MENU repetidas veces.

Viendo la Ayuda Especial (Consulte la página 15)

En algunas situaciones, su televisor samsung mostrará automáticamente mensajes para indicarle su operación correcta.

 Si opríme el botón TV/VIDEO sin estar conectado primero a la reproductora de video o a la cámara de video, verá este mensaje.

Seleccionando el Idioma del Menú (Consulte la página 15)

Usted puede elegir que los menús de su televisor se desplieguen en Inglés, Español, o Francés.

- 1 Oprima MENU varias veces hasta que vea el menú ajuste.
- 2 Oprima CH ▼ hasta hacer resaltar "language".
- Oprima –VOL o VOL+ para seleccionar uno de los tres lenguajes: inglés, español o francés.
- Oprima DISPLAY para salir de los menús.

Almacenamiento de Canales (Consulte la página 16)

Almacenando Canales en Memoria

- ① Oprima MENU repetidas veces hasta hacer visualizar el menú de ajuste.
- ② Oprima VOL+. Vera una pantalla para selecionar el tipo do antena o sistema de cable al que está conectado. Si conectó una antena, deje realzado "Antena". Si conectó cable, oprima CH ▼ para realzar el tipo de cable que tenga "STD", "HRC", o "IRC".
- 3 Oprima VOL+. El televisor empezará a memorizar todas las esta ciones que puede recibir.
 - Esto toma aproximadamente de uno a dos minutos. Cuando el televisor ha terminado, desplegará la pantalla de "Memorizar canales".
- 4 Presione la opcion MENU dos veces para limpiar la pantalla.

Añadiendo y Borrando Canales

Usted puede añadir manualmente un canal a la memoria o borrar manualmente uno de la memoria.

- ① Oprima MENU varias veces hasta que vea el menú Setup. Oprima CH ▼ para realzar "Add/Erase".
- 2 Oprima VOL+. Usted verá la pantalla de menú Add/Erase.
- ③ Oprima CH ▲ y CH ▼ para seleccionar un canal. Oprima VOL+ para añadir el canal o –VOL para borrar el canal.
- Cuando termine de agregar o borrar, oprima el botón MENU dos veces para seguir mirando la televisión.

Sintonía Fina de Canales (Consulte la página 17)

Usted puede sintonizar finamente un canal para que se vea más bien o para reducir las rayas o interferencia en la imagen.

- ① Oprima CH ▲, CH ▼, o los botones de número para seleccionar el canal que desea sintonizar finamente.
- ② Oprima MENU repetidas veces hasta ver el menú de ajuste. Oprima CH ▼ hasta seleccionar "Fine tune".
- Oprima –VOL y VOL+ hasta que el canal esté tan claro como sea posible.
- **4**Oprima **DISPLAY** o **MENU** para quitar los menús de la pantalla.

Cambiando Canales (Consulte la página 18)

Utilizando los Botones de Canal

1 Oprima los botones CH ▲ o CH ▼ para cambiar los canales.

Cambiando Canales Directamente

- Oprima los botones de números para ir directamente a un canal. Por ejemplo, para seleccionar el canal 27, oprima "2", y después "7". El televisor cambiará los canales cuando oprima el segundo número.
- Si desea seleccionar un canal mayor de 100, oprima el botón +100. Por ejemplo, para ver el canal 122 oprima "+100", después "2", y después "2".

Cambiando Canales

Usted puede cambiar automáticamente todos los canales en la memoria con solo tocar un botón.

- Oprima CH.SCAN
 - ✓ Para detener el cambio de canales, oprima cualquier botón.

Seleccionando el Canal Anterior

Oprima PRE-CH

La TV cambiará al último canal que usted estaba mirando.

Programación del Reloj (Consulte la página 19)

- 1 Oprima MENU repetidas veces hasta ver el menú de time.
- 20prima VOL +.
- ③Oprima los botones de CH ▲ o CH ▼ para seleccionar la hora correcta. Oprima VOL+. La hora empezará a Parpadear.
- ◆Oprima los botones de CH ▲ o CH ▼ para seleccionar los minutos correctos. Cuando haya seleccionado los minutos correctos, oprima DISPLAY para sacar los menus.

Ahora el reloj aparecerá cada vez que oprima DISPLAY.

Adaptando la Imagen (Consulte la página 20)

Usted puede usar los menús en pantalla para cambiar manualmente el contraste, el brillo, la nitidez, el color, y el tinte de su TV. Para adaptar la imagen:

- 1 Oprima MENU. Usted verá el menú Video.
- 2 Oprima -VOL o VOL+ hasta que aparezca la palabra "Custom".
- **3**Oprima CH ▼ para seleccionar el artículo que desea cambiar.
- Oprima –VOL o VOL+ para elevar o disminuir el valor del artículo. Por ejemplo, cuando usted selecciona "Bright", VOL+ aumenta el brillo; –VOL disminuye el brillo.

Utilizando Imagen Automática (Consulte la página 21)

Esta es una característica Samsung especial que ajusta automáticamente su imagen para usted

- Con el televisor encendido, oprima P-STD para seleccionar un ajuste automático de imagen.
- Seleccione Standard para ajustar el televisor para que opere a un rendimiento máximo, de conformidad a las especificaciones de su televisor.
- Seleccione Sports para ver el televisor durante el dia, o cuando hay luz brillante en la habitación.
- Seleccione Movies cuando vea películas o contas de reproductora de videos.
- Seleccione Mild cuando esté viendo el televisor con las luces bajas, o cuando esté jugando juegos de video.
- Seleccione *Custom* si desea hacer los ajustes usted mismo.

Configuración del Cronómetro de Apagado

(Consulte la página 22)

- ① Oprima repetidas veces **SLEEP** para fijar el tiempo que desea que la TV permanezca encendida.

 Usted puede fijar el cronómetro en uno de los siguientes períodos de tiempo: 10, 20, 30, 60, 90, 120, 150, 180, 210, 240, 270, 300, 330 o 360 minutos.
- Para cancelar el cronómetro de apagado, oprima SLEEP hasta que la lectura de la pantalla muestre "Off". Usted también puede cancelar el cronómetro apagando y luego encendiendo de nuevo la TV.

Mirando una Cinta o Cámara de vídeo

(Consulte la página 22)

- Oprima TV/VIDEOcuando desee visualizar una cinta de video, un juego en video o cualquier señal del equipo conectado a los jacks A/V de la TV
 - ✓Si usted no tiene ningún equipo conectado a los jacks A/V, la TV visualizará el mensaje, "Connect the A/V jacks".
- 2 Para volver a mirar la TV normal, oprima TV/VIDEO otra vez.

Configuración del Cronómetro de Encendido/Apagado (Consulte la página 23)

Usted puede programar la TV para que se encienda o apague a una hora específica. Para fijar el cronómetro:

- ① Oprima MENU repetidas veces hasta ver el menú Tiempo. Oprima CH ▼ para seleccionar "Timer".
 - ✓ Antes de usar el cronómetro, usted debe poner en hora el reloj de la TV.
- ② Oprima VOL+ para cambiar el temporiz a "On".
 Si más tarde usted desea apagar el cronómetro, oprima -VOL para cambiar el temporizador a "Off".
- 3 Oprima CH ▼ para hacer resaltar "On time". Oprima VOL+.
- ④ Oprima CH ▲ o CH ▼ para seleccionar la hora en que desea que la TV se encienda.
- ⑤ Oprima VOL +. Los minutos parpadearán. Oprima CH ▲ o CH ▼ para seleccionar los minutos en que desea que se encienda la TV.
- 6 Cuando termine, oprima VOL +.
- Si desea programar el Fin, oprima CH ▼ para hacer resaltar
 "Off time". Programe el "Off time" de la misma manera que el
 "On time".
- 3 Cuando termine de configurar el cronómetro, oprima DISPLAY.

Cómo usar el Cronómetro de SURF (Consulte la página 24)

Puede ser que usted esté mirando un canal que comience a mostrar comerciales. Usted puede fijar el Cronómetro de **SURF** en "2 minutos", luego cambiar canales. Después de 2 minutos, la TV regresará al canal original. Para usar el cronómetro de **SURF**:

- Mientras esté mirando el canal al cual desea regresar, oprima SURF.
 - La visualización en pantalla mostrará "Skip off".
- 2 Oprima SURF de nuevo para programar el cronómetro en intervalos de 30 segundos, hasta cinco minutos.

Visualización de Subtítulos (Consulte la página 25)

Su TV decodifica y visualiza los subtítulos que son transmitidos en algunos programas de televisión. Estos subtítulos generalmente son subtítulos para las personas con problema de audición o traducciones hacia otro idioma. Observe que el símbolo de subtítulos aparezca en su programa de televisión y en la envoltura de la cinta: CC.

- Oprima MENU repetidas veces hasta ver el menú ajuste. Oprima CH ▼ para seleccionar "Caption".
- 2 Oprima VOL+ para abrir el menú de Caption.
- 3 Oprima VOL + para encender los subtítulos.
- ◆ Oprima CH ▼ para hacer resaltar "Mode". Oprima VOL o VOL + para elegir "Capt." (subtítulos) o "Text". En el modo de subtítulo, aparecen subtítulos en la parte inferior de la pantalla, y generalmente cubren únicamente una pequeña parte de la imagen. En el modo de texto, se visualiza la información no relacionada con el programa, como las noticias o el informe del tiempo. El texto a menudo cubre una parte amplia de la pantalla.
- Si usted desea, use CH ▲, CH ▼, o VOL + para cambiar el canal o campo de subtítulos. Luego, oprima DISPLAY para regresar a la imagen normal.

APPENDIX

Troubleshooting

Identifying Problems

Before you call a television repair person, scan this list of possible problems and solutions. It may save you time and money.

Poor picture.

- · Try another channel.
- · Adjust the antenna.
- · Check all wire connections.

Poor sound quality.

- · Try another channel.
- · Adjust the antenna.

No picture or sound.

- · Try another channel.
- · Press the TV/VIDEO button
- · Make sure the TV is plugged in.
- Check the antenna connections.

No color, wrong colors or tints.

- Make sure the program is broadcast in color.
- Adjust the picture settings.

Picture rolls vertically.

- · Adjust the antenna.
- · Check all wire connections.

The TV won't turn on.

· Make sure the wall outlet is working.

APPENDIX

Cleaning and maintaining your TV

With proper care, your TV will give you many years of service. Please follow these guidelines to get the maximum performance from your TV.

Placement

- Do not place the TV near extremely hot, cold, humid or dusty places.
- Do not place the TV near appliances with electric motors that create magnetic fields, such as vacuum cleaners.
- Keep the ventilation openings clear; do not place the TV on a soft surface, such as cloth or paper.
- · Place the TV in a vertical position only.

Liquids

 Do not handle liquids near or on the TV. Liquids that spill into it can cause serious damage.

Cabinet

- · Never open the cabinet or touch the parts inside.
- Wipe your TV with a clean, dry cloth. Never use water, cleaning fluids, wax, or chemicals.
- · Do not put heavy objects on top of the cabinet.

Temperature

 If your TV is suddenly moved from a cold to a warm place, unplug the power cord, and allow at least two hours for moisture that may have formed inside the unit to dry completely.

Using your TV in another country

If you plan to take your TV with you to a foreign country, please be aware of the different television systems that are in use around the world. A TV designed for one system may not work properly with another system due to differences in the TV channel frequencies.

Specifications

MODEL	TX.J1371/1366/1396/1367 TXH1372/1373/1386 3355/331E/33H1/331F 331H/338C/3338/3339 3373/3385/3366/14S1 14F2/14R1/333E/142F 141S/14H3/14F3N/15K8	TXJ1971/1966/1996 TXH1970/1972/1973/1986 5055/501E/50H1/508C 501H/5038/5039/5073 5088/5066/20S11/20F2 20R1/2038/503E/501F/202F 201S/20H3/20F2N	5355 21\$1 211\$
VOLTAGE	CANADA: AC 120V LATIN/AAFES: AC100-240V CANADA: 60Hz LATIN/AAFES: 50/60Hz		
FREQUENCY OF OPERATION			

