

CT-21M21MQ CT-21K30ML CT-21M20MQ CT-21V10MQ CT-17K30ML CT-17M16MQ

COLOR TELEVISION

Owner's Instructions

Contents

Chapte	r 1: Your New TV	. 4
	List of Features	4
	Familiarizing Yourself with The TV	
	Front Panel Buttons.	
	Side Panel Jacks	
	Remote Control.	
Chapte	r 2: Installation	9
onapto.	Connecting VHF and UHF Antennas	
	Antennas with 300-ohm Flat Twin Leads	9
	Antennas with 75-ohm Round Leads	
	Separate VHF and UHF Antennas	
	Connecting Cable TV	10
	Cable without a Cable Box	10
	Connecting to a Cable Box that Descrambles	1.1
	All Channels	11
	Connecting to a Cable Box that Descrambles Some Channels	11
	Connecting a VCR.	13
	Connecting a DVD Player	
	Connecting a Camcorder	
	Installing Batteries in the Remote Control	16
Chapte	r 3: Operation	
	Turning the TV On and Off	
	Plug & Play Feature (depending on the model)	
	Viewing the Menus	19
	Viewing the Display	19
	Selecting a Menu Language	
	Memorizing the Channels	
	Selecting the Video Signal-source	
	Storing Channels in Memory (Automatic Method)	
	Adding and Erasing Channels (Manual Method)	
	Changing Channels	
	Using the Channel Buttons	
	Using the PRE-CH Button to select the Previous Channel.	
	Labeling the Channels (depending on the model)	
	Customizing the Picture	
	Using Automatic Picture Settings	
	Adjusting the Volume	
	Using Mute	
	Customizing the Sound	
	Using Automatic Sound Settings	
	Viewing a VCR or Camcorder Tane	50

Contents

Chapte	er 4: Special Features	32
-	Fine Tuning Channels	
	Selecting the Color Tone	
	Changing the Screen Size	34
	Digital Noise Reduction	35
	Using the Surf Feature	
	Choosing a Multi-Channel Sound (MTS) Soundtrack	37
	Extra Sound Settings	38
	Setting the On/Off Timer	39
	Setting the Sleep Timer	40
	Viewing Closed Captions	41
	Viewing the Demonstration	42
Chapte	er 5: Troubleshooting	43
	Identifying Problems	43
Appen	dix	44
	Cleaning and Maintaining Your TV	44
	Using Your TV in Another Country	
	Specifications	

Chapter One

Your New TV

List of Features

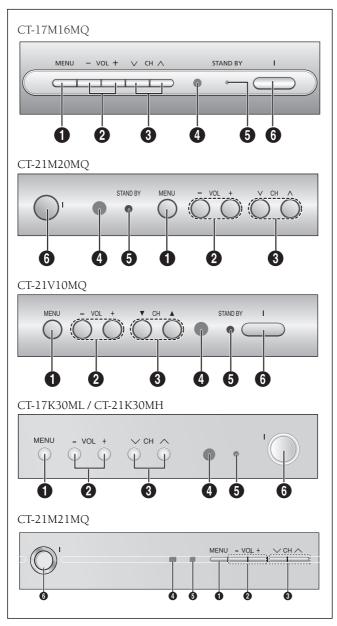
Your TV was designed with the latest technology. This TV is a high-performance unit that includes the following special features:

- Easy-to-use remote control
- Easy-to-use on-screen menu system
- Automatic timer to turn the TV on and off
- Adjustable picture and sound settings that can be stored in the TV's memory
- Automatic channel tuning for up to 181 channels
- A special filter to reduce or eliminate reception problems
- Fine tuning control for the sharpest picture possible
- Built-in, dual channel speakers
- A special sleep timer
- Surround, Turbo sound, Auto Volume

Familiarizing Yourself with The TV

Front Panel Buttons

The buttons on the front panel control your TV's basic features, including the on-screen menu. To use the more advanced features, you must use the remote control.



1 MENU

Press to see an on-screen menu of your TV's features.

Q VOL - , +

Press to increase or decrease the volume. Also used to select items on the on-screen menu.

3 CH ∨(**▼**) and CH ∧(**△**)

Press to change channels. Also press to select various items on the on-screen menu. You can use the $\mathbf{CH} \curvearrowright (\blacktriangledown)$ or $\mathbf{CH} \leadsto (\blacktriangle)$ button, switch on the TV when it is standby mode.

Remote Control Sensor

Aim the remote control towards this spot on the TV.

5 STAND BY indicator Lights up when you turn the power

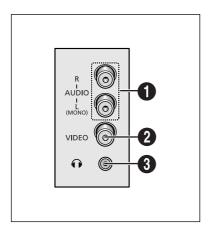
1 (Power)

off.

Press to turn the TV on and off.

Side Panel Jacks

You can use the Side panel jacks to connect an A/V component that is used only occasionally, such as a camcorder or video game. (For information on connecting equipment, see page 15.)



1 AUDIO INPUTS

Audio signals from VCRs, DVD players and similar devices.

2 VIDEO INPUT

 $\label{local_video} \mbox{Video signals from VCRs, DVD players and similar devices.}$

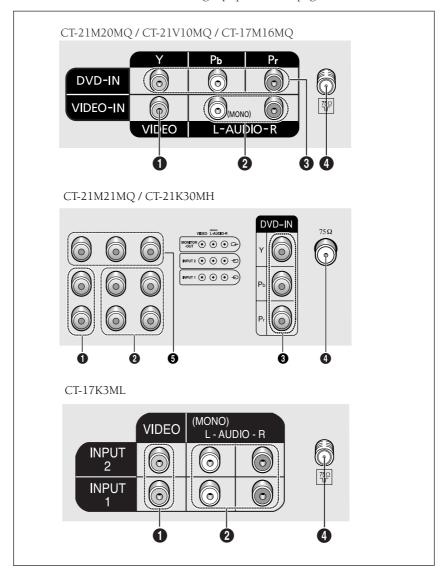
6 HEADPHONE

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

Rear Panel Jacks

Use the rear panel jacks to connect an A/V component that will be connected continuously, such as a VCR or a DVD player.

For more information on connecting equipment, see pages 9-16.



1 VIDEO INPUT

Video signals from VCRs, DVD players and similar devices.

@ AUDIO INPUTS

Audio signals from VCRs, DVD players and similar devices.

6 DVD INPUT

Connect video from a DVD player.

4 VHF/UHF

Connect to an antenna or to a cable TV system.

6 AUDIO-VIDEO MONITOR OUTPUT

These audio-video signals are identical to A/V signals being displayed on the big screen. (Typically used as the input signals for a recording VCR.)

Note: VIDEO-MONITOR OUTPUT doesn't operate in the COMPONENT mode.

Remote Control

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

1 POWER

Turns the TV on and off.

2 Number buttons

Press to select channels directly on the TV.

3 +100

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

4 MUTE

Press to temporarily cut off the sound.

O VOL -, VOL +

Press to increase or decrease the volume.

6 SLEEP

Press to select a preset time interval for automatic shutoff.

MENU

Displays the main on-screen menu.

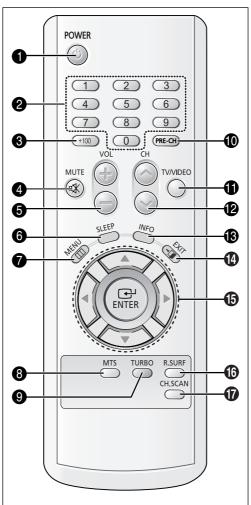
MTS (Multichannel Television Stereo)

Press to choose stereo, mono or Separate Audio Program (SAP broadcast).

Available in AV mode only depending on the model.

O TURBO

Press to turn the TURBO sound On or Off.



10 PRE-CH

Tunes to the previous channel.

1 TV/VIDEO

Press to display all of the available video sources (i.e., Antenna/Cable, VCR).

② CH △ and CH ✓ (Channel Up/Dow

® INFO

Press to see the time, channel, etc., on-screen.

@ EXIT

Press to exit the menu.

⑤ Up, Down, Left, Right (▲, ▼, ◄, ►)/ ENTER

Press to select highlight up, down, left, or right. While using the onscreen menus, press the ENTER button to activate (or change) a particular item.

® R-SURF

Press the SURF button to automatically return to a preferred channel after a user-preset time delay.

17 CH.SCAN

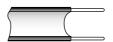
Not available.

Chapter Two

Installation

Connecting VHF and UHF Antennas

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



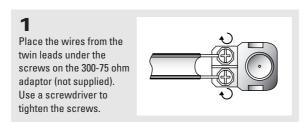
If your antenna has one lead that looks like this, see "Antennas with 75-ohm Round Leads" on next page.

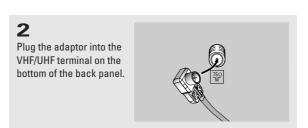


If you have two antennas, see "Separate VHF and UHF Antennas" on next page.

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.



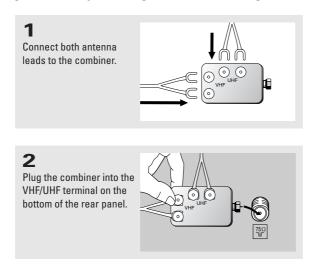


Antennas with 75-ohm Round Leads



Separate VHF and UHF Antennas

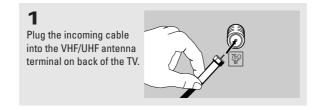
If you have two separate antennas for your TV (one VHF and one UHF), you must combine the two antenna signals before connecting the antennas to the TV. This procedure requires an optional combiner-adaptor (available at most electronics shops).



Connecting Cable TV

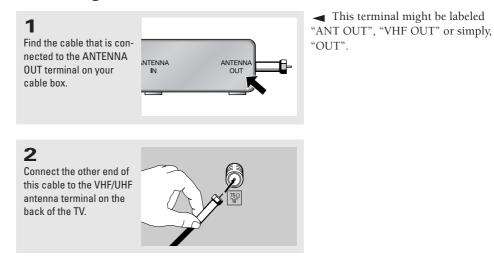
To connect to a cable TV system, follow the instructions below.

Cable without a Cable Box



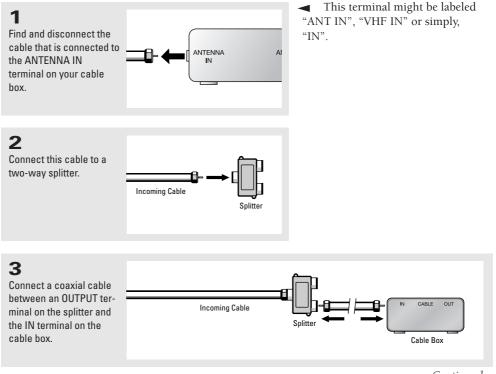
■ Because this TV is cable-ready, you do not need a cable box to view unscrambled cable channels.

Connecting to a Cable Box that Descrambles All Channels

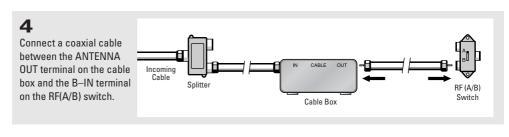


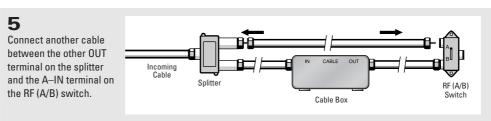
Connecting to a Cable Box that Descrambles Some Channels

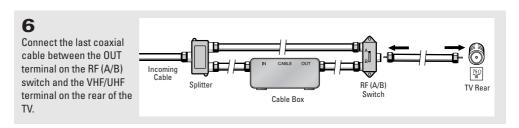
If your cable box descrambles only some channels (such as premium channels), follow the instructions below. You will need a two-way splitter, an RF (A/B) switch, and four lengths of coaxial cable. (These items are available at most electronics stores.)



Continued...





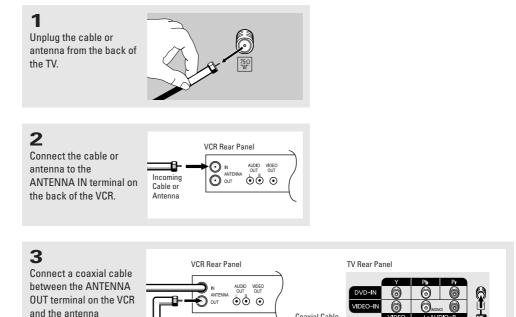


After you've made this connection, set the A/B switch to the "A" position for normal viewing. Set the A/B switch to the "B" position to view scrambled channels. (When you set the A/B switch to "B", you will need to tune your TV to the cable box's output channel, which is usually channel 3 or 4.)

terminal on the TV.

Connecting a VCR

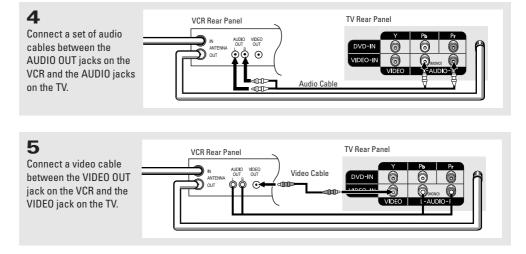
These instructions assume that you have already connected your TV to an antenna or a cable TV system (according to the instructions on pages 9-12). Skip step **1** if you have not yet connected to an antenna or a cable system.



A coaxial cable is usually included with a VCR. (If not, check your local electronics store).

Coaxial Cable

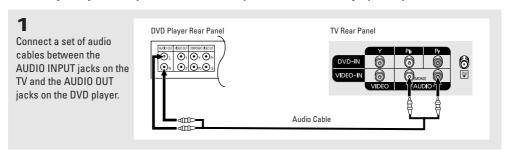
VIDEO L-AUDIO-R

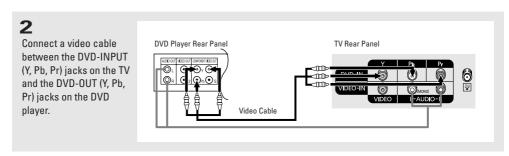


Follow the instructions in "Viewing a VCR or Camcorder Tape" to view your VCR tape.

Connecting a DVD Player (480i)

The rear panel jacks on your TV make it easy to connect a DVD player to your TV.

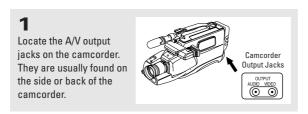


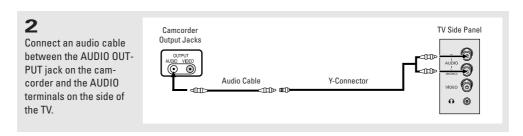


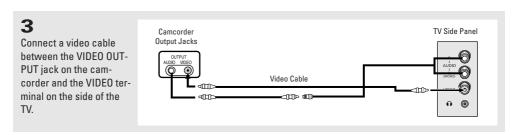
Note: For an explanation of Component video, see your DVD player's owner's manual.

Connecting a Camcorder

The side panel jacks on your TV make it easy to connect a camcorder to your TV. They allow you to view the camcorder tapes without using a VCR. (Also see "Viewing a VCR or Camcorder Tape" on page 31.)







The audio-video cables shown here are usually included with a Camcorder. (If not, check your local electronics store.) If your camcorder is stereo, you need to connect a set of two cables.

Installing Batteries in the Remote Control





■ Make sure to match the "+" and "—" ends of the batteries with the diagram inside the compartment.



■ 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.

(Assuming typical TV usage, the batteries last for about one year.)

Chapter Three

OPERATION

Turning the TV On and Off

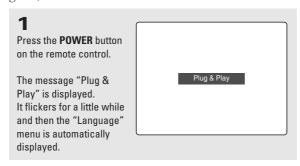
Press the " ■ " button (On/Off) on the front of the television.

Press the **POWER** button on the remote control to switch the television on.

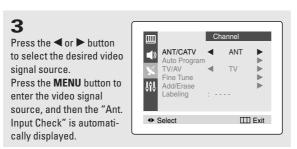
Caution: One pole switch is totally not off (one line still live) if power cord is not unplugged.

Plug & Play Feature (depending on the model)

When the TV is initially powered On, five basic customer settings proceed automatically and subsequently: Setting the language, Video signal source, Ant. input check, Auto program, and Clock.

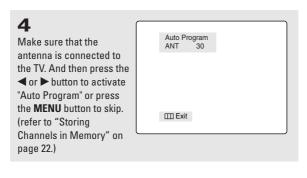


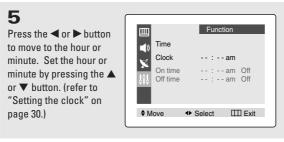


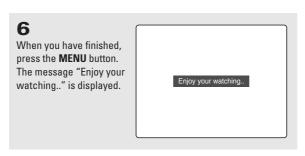


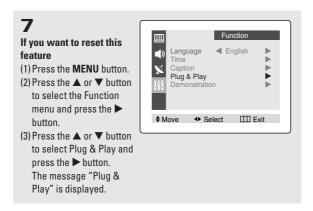
continued...

OPERATION





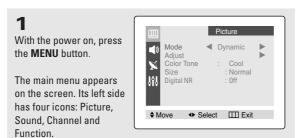




Note: Plug & Play feature doesn't work when in the A/V mode.

Viewing the Menus and On-Screen Displays

Viewing the Menus



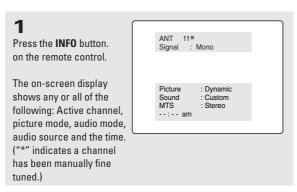
■ The on-screen menus disappear from the screen after about thirty seconds.

2

Use the ▲ and ▼ buttons to highlight one of the 4 icons. Then press the ► button to access the icon's sub-menu. Press the EXIT button to exit the menu.

✓ You can also use the MENU, CHANNEL and VOLUME buttons on the control panel of the TV to make selections.

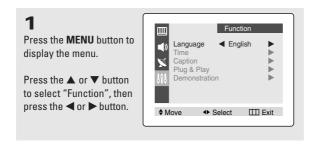
Viewing the Display

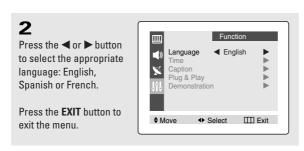


■ The on-screen displays disappear after about ten seconds.

When Closed Caption has been set, the icon(©C) will appear by pressing the INFO button.

Selecting a Menu Language



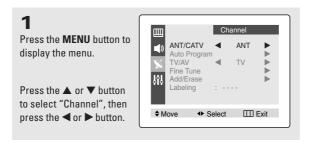


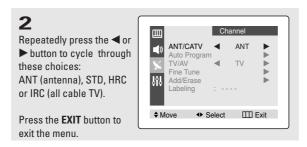
Memorizing the Channels

Your TV can memorize and store all of the available channels for both "off-air" (antenna) and cable channels. After the available channels are memorized, use the CH and CH buttons to scan through the channels. This eliminates the need to change channels by entering the channel digits. There are three steps for memorizing channels: selecting a broadcast source, memorizing the channels (automatic) and adding and deleting channels (manual).

Selecting the Video Signal-source

Before your television can begin memorizing the available channels, you must specify the type of signal source that is connected to the TV (i.e., an antenna or a cable system).

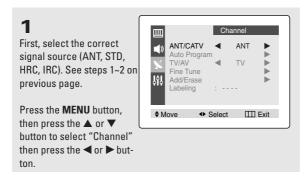




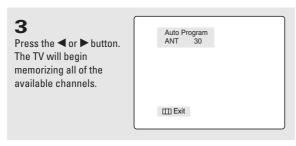
Note: STD, HRC and IRC identify various types of cable TV systems. Contact your local cable company to identify the type of cable system that exists in your particular area.

At this point the signal source has been selected. Proceed to "Storing Channels in Memory" (next page).

Storing Channels in Memory (Automatic Method)







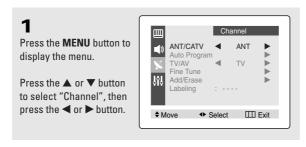
■ The TV automatically cycles through all of the available channels and stores them in memory. This takes about one to two minutes.

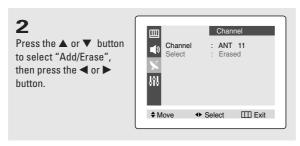
Press the MENU button at any time to interrupt the memorization process and return to the Channel menu.



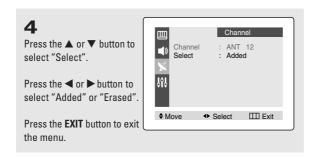
After all the available channels are stored, the channel menu reappears. Press the **EXIT** button to exit the menu.

Adding and Erasing Channels (Manual Method)









Changing Channels

Using the Channel Buttons

Press the $CH \land$ or $CH \lor$ button to change channels.

When you press $CH \land$ or $CH \lor$, the TV changes channels in sequence. You will see all the channels that the TV has memorized. (The TV must have memorized at least three channels.) You will not see channels that were either erased or not memorized.

Directly Accessing Channels

Use the number buttons to quickly tune 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 directly select channels that were either erased or not memorized.

To select a channel over 100, press the +100 button. (For channel 122, press "+100", then "2", then "2".)

To change to single-digit channels (0–9) faster, press "0" before the single digit. (For channel "4", press "0", then "4".)

Using the PRE-CH Button to select the Previous Channel

Press the **PRE-CH** button.

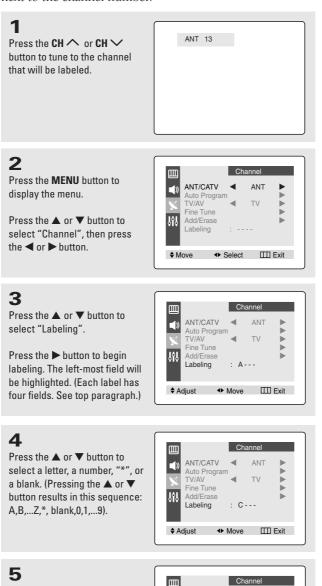
The TV will switch to the last channel viewed.

■ To quickly switch between two channels that are far apart, tune to one channel, then use the number button to select the second channel. Then, use the PRE-CH button to quickly alternate between them.

Labeling the Channels (depending on the model)

Use this feature to assign an easy-to-remember label to any channel (i.e., "CBS", "ESPN", "PBS2", CNN1", etc.) A label consists of four fields, where each field is a letter, a number, "*", or a blank. When the INFO button is pressed, the channel label will appear next to the channel number.

■ Note: You cannot select "Labeling" in the A/V mode.



Press the ▶ button to switch to the next field, which will be highlighted. Select a second letter or digit using the ▲ and ▼ buttons, as above. Repeat the process to select the last three digits.

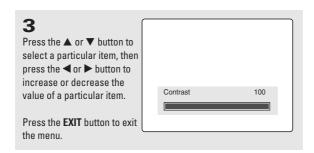
Press the EXIT button to exit the menu.

Customizing the Picture

You can use the on-screen menus to change the contrast, brightness, sharpness, color, and tint according to personal preference. (Alternatively, you can use one of the "automatic" settings. See next page.)



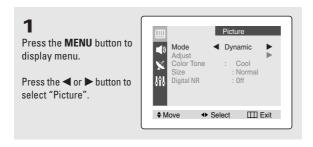


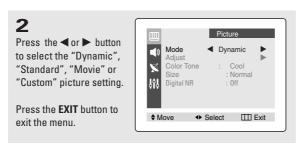


■ After adjusting an item, the gauge will automatically disappear (after about 5 seconds).

Using Automatic Picture Settings

Your TV has three automatic picture settings ("Dynamic", "Standard" and "Movie") that are preset at the factory. You can activate either Dynamic, Standard or Movie by making a selection from the menu. Or, you can select "Custom" which automatically recalls your personalized picture settings.





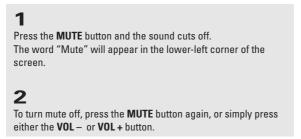
- Choose *Dynamic* for viewing the TV during the day or when there is bright light in the room.
- Standard: Optimal indoor screen condition.
- Choose *Movie* when viewing the TV in low light, or when playing video games.
- Choose *Custom* if you want to adjust the settings according to personal preference (see "Customizing the Picture", page 26).

Adjusting the Volume

Press the **VOL** + or **VOL** – button to increase or decrease the volume.

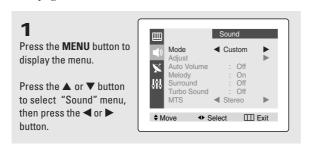
Using Mute

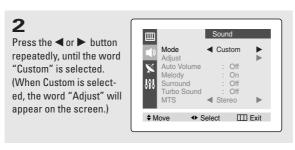
At any time, you can temporarily cut off the sound using the Mute button.

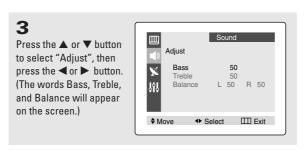


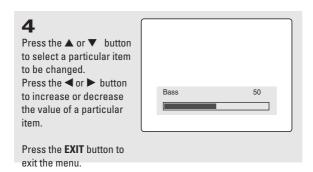
Customizing the Sound

You can use the on-screen menus to adjust the bass, treble, and balance according to individual preference. (Alternatively, you can use one of the "automatic" settings. See next page.)





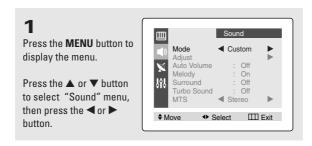


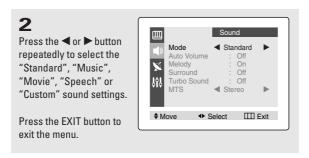


■ After adjusting an item, the gauge will automatically disappear (after about 5 seconds).

Using Automatic Sound Settings

Your TV has four automatic sound settings ("Standard", "Music", "Movie" and "Speech") that are preset at the factory. You can activate any of them by making a selection from the on-screen menu. Or, you can select "Custom", which automatically recalls your personalized sound settings.





- Choose Standard for the standard factory settings.
- Choose *Music* when watching music videos or concerts.
- Choose Movies when watching movies.
- Choose *Speech* when watching a show that is mostly dialogue (i.e., news).
- Choose Custom to recall your personalized settings.

Setting the Clock

1

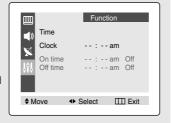
Press the **MENU** button to display the on-screen menu.

Press the ▲ or ▼ button to select "Function", then press the ◀ or ▶ button.



2

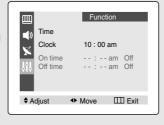
Press the ▲ or ▼ button to select "Time", then press the ◀ or ► button. The Time menu will appear on the screen, and "Clock" will be selected.



3

Press the ◀ or ▶ button again (the hours digits will be selected).

Press the \triangle or ∇ button repeatedly until the correct hour appears.



■ When selecting the hours, be sure to select the proper time of day (AM or PM).

You can change the hours by pressing ▲ or ▼ repeatedly (or by holding down either of these buttons).

4

After the hour is entered, press the ▶ button. (at this point the minutes digits will be selected.)

Press the ▲ or ▼ button to select the correct minutes.

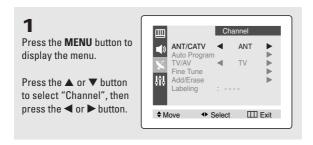
Press the **EXIT** button to exit the menu.



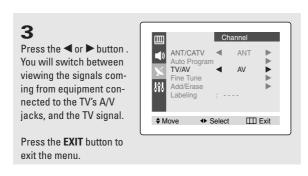
■ The time will appear every time you press the INFO button.

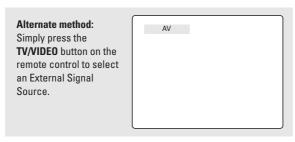
Viewing a VCR or Camcorder Tape

You must select the appropriate mode in order to view the VCR or Camcorder signal on the TV.







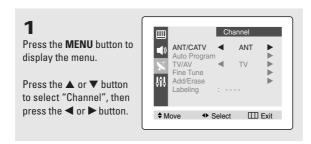


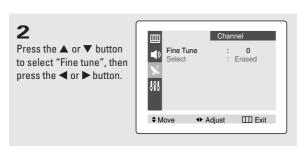
Chapter Four

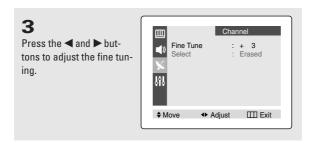
SPECIAL FEATURES

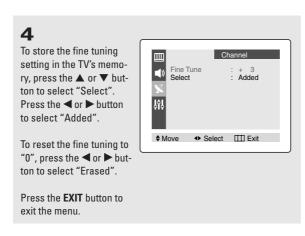
Fine Tuning Channels

Use fine tuning to manually adjust a particular channel for optimal reception.



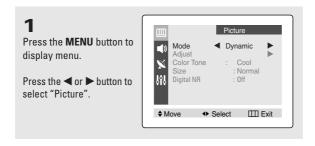




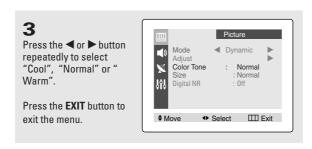


■ After you adjust the fine tuning, "*" will appear when you press the INFO button while watching this channel.

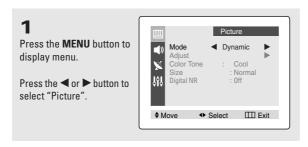
Selecting the Color Tone



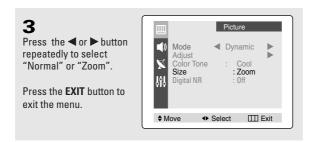




Changing the Screen Size







- Normal : Sets the picture to 4:3 normal mode. This is a standard TV screen size.
- Zoom: Magnifies the size of the picture on screen.

Digital Noise Reduction

If the broadcast signal received by your TV is weak, you can activate the Digital Noise Reduction feature to help reduce any static and ghosting that may appear on the screen.



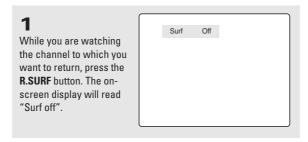


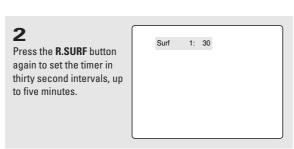


Pressing the ◀ or ▶ button will alternate between "On" and "Off".

Using the Surf Feature

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 "5 minutes", then switch channels. After 5 minutes, the TV will return to the original channel. To use the Surf:



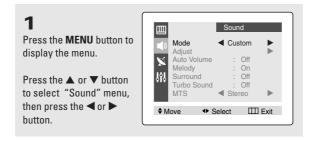


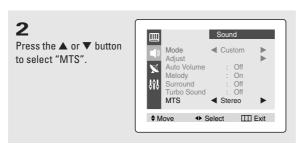
■ The time will be decreasing while you are setting up the timer. And you will reset it when you pass five minutes or turn it off.

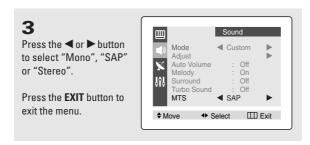
The time you set will begin counting down on the screen.
When the time runs out, the TV will return to the channel you were watching when you set the timer.

Choosing a Multi-Channel Sound (MTS) Soundtrack

Depending on the particular program being broadcast, you can listen to stereo, mono or a Separate Audio Program. (SAP audio is usually a foreign-language translation. Sometimes SAP has unrelated information like news or weather.). Available in AV mode only depending on the model.





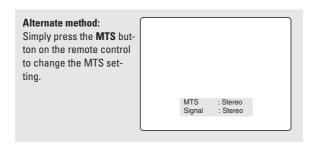


■ The text at the bottom of the menu tells you if the incoming audio is stereo, SAP or mono.

When you change channels, MTS is set to "Stereo" automatically.

To listen in "SAP" or "Mono", change the MTS setting.

Only "Stereo" or "Mono" is Selectable in AV mode.



- Choose Stereo for channels that are broadcasting in stereo.
- Choose *Mono* for channels that are broadcasting in mono, or if you are having difficulty receiving a stereo signal.
- Choose *SAP* to listen to the Separate Audio Program, which is usually a foreign-language translation.

Extra Sound Settings

• Auto Volume

Each broadcasting station has its own signal conditions, and so it is not easy for you to adjust the volume every time the channel is changed. "Auto volume" lets you automatically adjust the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.

• Melody

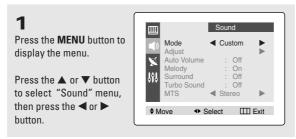
You can set a melody to sound when the TV is powered On or Off.

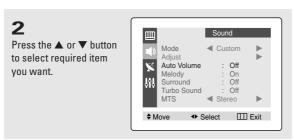
• Surround

"Surround" converts a mono or stereo signal into simulated surround sound. Once the "Surround" is set to "On", the setting applies to sound effects such as Standard, Music, Movie and Speech.

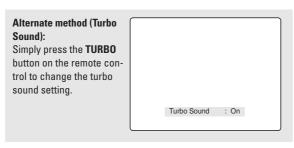
• Turbo Sound

Turbo sound suitably emphasizes both higher and lower bands of sound (and includes other effects).









English - 38

Setting the On/Off Timer

Press the MENU button to display the on-screen menu.

Press the ▲ or ▼ button to select "Function", then press the ◀ or ▶ button.

Press the ▲ or ▶ button.

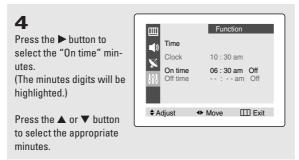
■ Before using the timer, you must set the TV's clock. (See "Setting the Clock" on page 30).

Press the ▲ or ▼ button to select "Time" then press the ◀ or ▶ button. The Time menu will appear on the screen.



Function Press the ▲ or ▼ button Time to select "On time". 10:30 am On time 06:00 am Off Press the ◀ or ▶ button to select the "On time" Adjust (The hours digits will be highlighted.) Press the ▲ or ▼ button repeatedly to select the appropriate hours (i.e., the hour when the TV will turn on.)

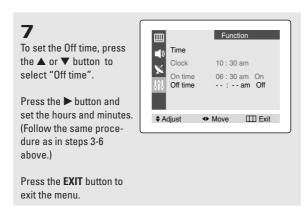
■ When you set the hours, make sure the correct time of day (AM or PM) appears to the right of the hour.



Continued...

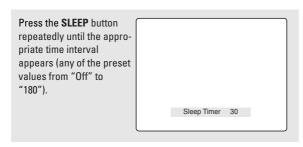


■ To deactivate the "On time", select "Off" during this step.



Setting the Sleep Timer

The sleep timer automatically shuts off the TV after a preset time (from 10 to 180 minutes).



■ After about 5 seconds, the sleep display will disappear from the screen, and the time interval will be set

Viewing Closed Captions

Your TV decodes and displays the closed captions that are broadcast with certain TV shows. These captions are usually subtitles for the hearing impaired or foreign-language translations. All VCRs record the closed caption signal from television programs, so home-recorded video tapes also provide closed captions. Most pre-recorded commercial video tapes provide closed captions as well. Check for the closed caption symbol in your television schedule and on the tape's packaging; [CC].

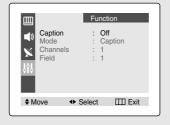


press the ◀ or ▶ button.

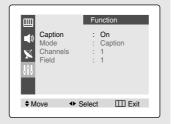




Press the ▲ or ▼ button to select the "Caption", then press the ◀ or ► button.



3
Press the ◀ or ▶ button to turn closed captioning on/off.



■ Misspellings and unusual characters sometimes occur during closed caption transmissions, especially those of live events. There may be a small delay before captions appear when you change channels. These are not malfunctions of the TV.



Press the ◀ or ▶ button to select "Caption or "Text".



■ In caption mode, captions appear at the bottom of the screen, and they usually cover only a small portion of the picture.

In text mode, information unrelated to the program, such as news or weather, is displayed. Text often covers a large portion of the screen.

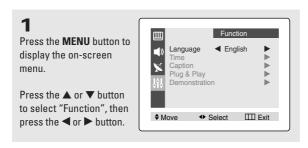
Depending on the particular broadcast, it might be necessary to make changes to "Channels" and "Field":
Use the ▲, ▼, ◀ and ▶ buttons to make the changes. (Follow the same procedure as in steps 3~4 above.)

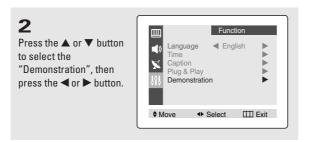
Press the EXIT button to exit the menu.

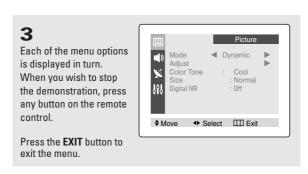
■ Different channels and fields display different information: Field 2 carries additional information that supplements the information in Field 1. (For example, Channel 1 may have subtitles in English, while Channel 2 has subtitles in Spanish.)

Viewing the Demonstration

To become familiar with the various menus provided by your television, you can view the in built demonstration.







Chapter Five

TROUBLESHOOTING

If the TV seems to have a problem, first try this list of possible problems and solutions. If none of these troubleshooting tips apply, then call your nearest service center.

Identifying Problems

Problem	Possible Solution	
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. If the set is moved or turned in a different direction, the power should be OFF for at least 30 minutes.	
Picture rolls vertically.	Adjust the antenna. Check all wire connections.	
The TV operates erratically	Unplug the TV for 30 seconds, then try operating it again.	
The TV won't turn on.	Make sure the wall outlet is working.	

Appendix

Cleaning and Maintaining Your TV

With proper care, your TV unit 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	CT-21K30MH CT-21M20MQ CT-21M21MQ	CT-21V10MQ	CT-17K30ML CT-17M16MQ
Voltage	AC 100-240V	AC 100-240V	AC 100-240V
Frequency of Operation	50/60Hz	50/60Hz	50/60Hz
Viewing screen size	508mm	510mm	402mm

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