

Trinitron Color TV

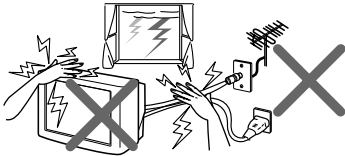
Operating Instructions

- Before operating the unit, please read this manual thoroughly and retain it for future reference.

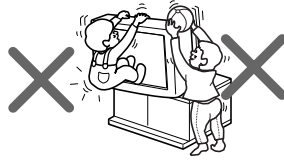
KV-XA21

WARNING

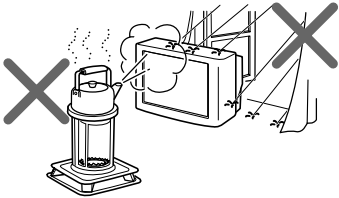
- Dangerously high voltages are present inside the TV.
- Operate the TV only between 110-240 V AC.



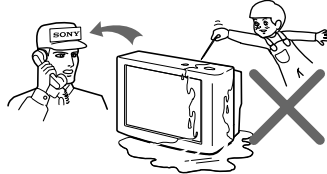
For your own safety, do not touch any part of the TV, the power cord and the antenna cable during lightning storms.



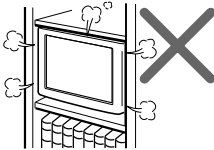
For children's safety, do not leave children alone with the TV. Do not allow children to climb onto it.



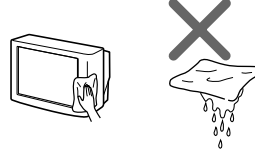
To prevent fire or shock hazard, do not expose the TV to rain or moisture.



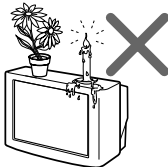
Do not operate the TV if any liquid or solid object falls into it. Have it checked immediately by qualified personnel only.



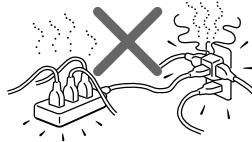
Do not block the ventilation openings of the TV. Do not install the TV in a confined space, such as a bookcase or built-in cabinet.



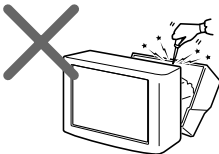
Clean the TV with a dry and soft cloth. Do not use benzene, thinner, or any other chemicals to clean the TV. Do not scratch the picture tube.



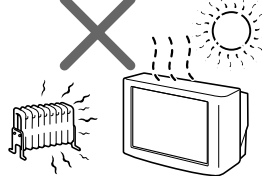
Do not place any objects on the TV.



Do not plug in too many appliances to the same power socket. Do not damage the power cord.



Do not open the cabinet and the rear cover of the TV as high voltages and other hazards are present inside the TV. Refer servicing and disposal of the TV to qualified personnel.



Your TV is recommended for home use only. Do not use the TV in any vehicle or where it may be subject to excessive dust, heat, moisture or vibrations.

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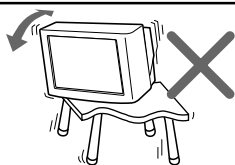
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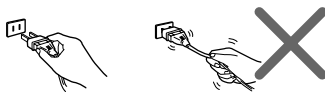
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WARNING (continued)



Install the TV on a stable TV stand and floor which can support the TV set weight. Ensure that the TV stand surface is flat and its area is larger than the bottom area of the TV.



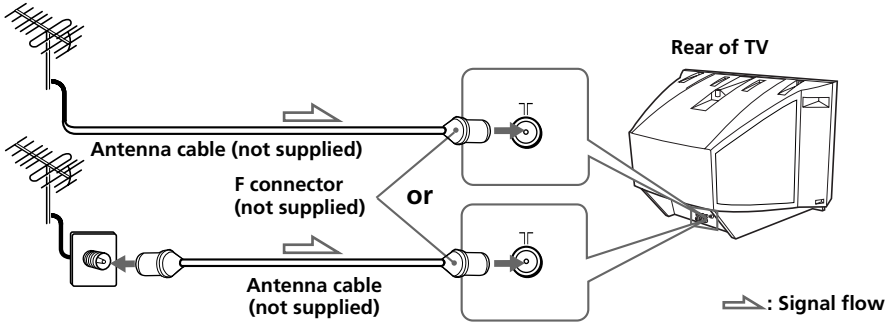
Pull the power cord out by the plug. Do not pull the power cord itself. Even if your TV is turned off, it is still connected to the AC power source (mains) as long as the power cord is plugged in. Unplug the TV before moving it or if you are not going to use it for several days.

Getting Started

Step 1

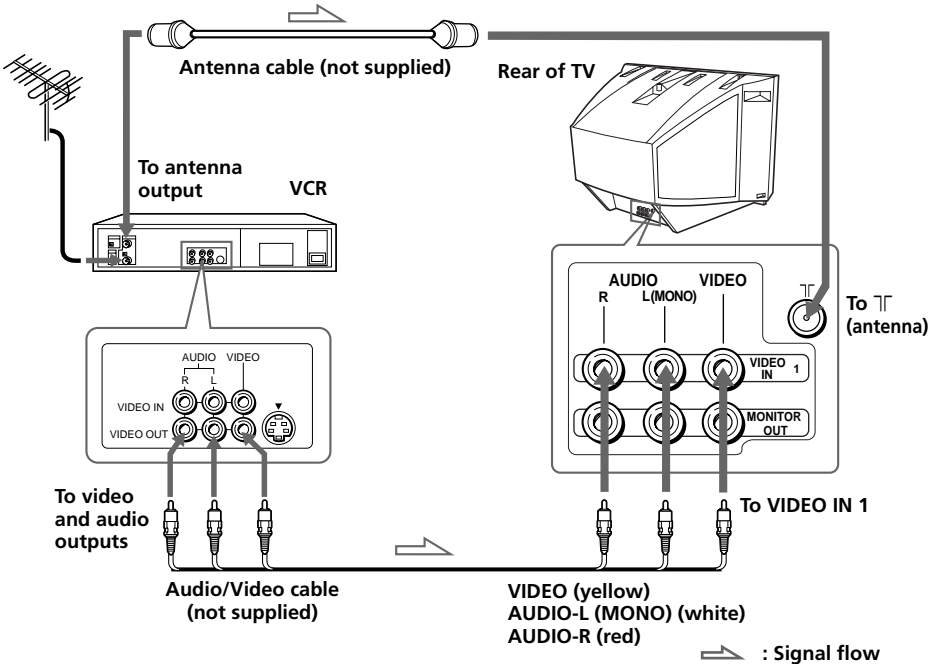
Connect the antenna

If you wish to connect a VCR, see the **Connecting a VCR** diagram below.



Connecting a VCR

To watch the video input, press VIDEO (see page 12).

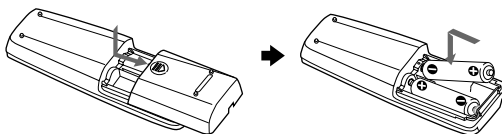


Notes

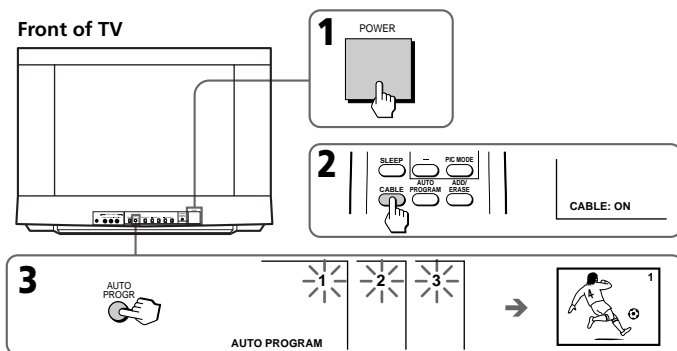
- With the “VIDEO MULTI SYSTEM” input terminal, you can also receive PAL, NTSC and SECAM video signals when using VIDEO IN 1 jacks at the rear of your TV or the VIDEO 2 INPUT at the front of your TV.
- If you connect a monaural VCR, connect the yellow plug to VIDEO (the yellow jack) and the black plug to AUDIO-L (MONO) (the white jack).
- When no signal is input to the connected video equipment, the TV screen becomes blue.

CAUTION

- Do not connect the power cord until you have completed making all other connections; otherwise a minimum leakage current might flow through the antenna and other terminals to ground.
- To avoid battery leakage and damage to the remote, remove the batteries from the remote if you are not going to use it for several days. If any liquid that leaks from the batteries touches you, immediately wash it away with water.

Step 2**Insert the batteries into the remote****Note**

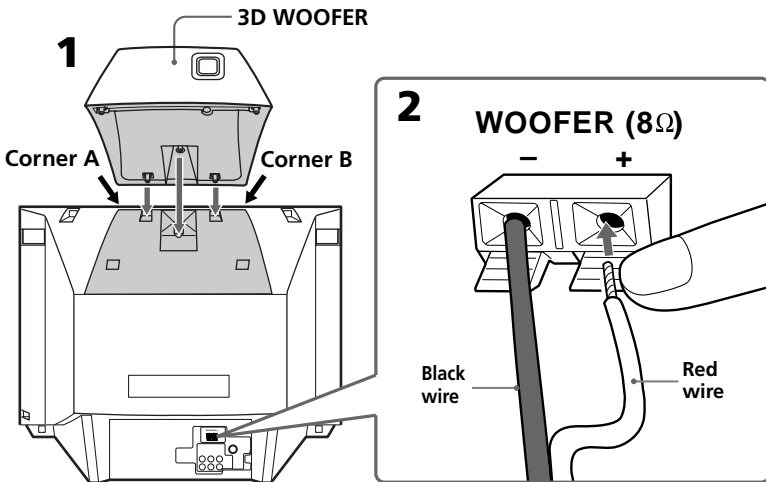
- Do not use old batteries nor use different types of batteries together.

Step 3**Preset the channels automatically****Tips**

- If you want to stop automatic channel presetting, press SELECT.
- If your TV has preset an unwanted channel or cannot preset a particular channel, then preset your TV manually (see page 10).
- The AUTO PROGRAM button on the remote works as the AUTO PROGR button on the TV.

Connecting the 3D WOOFER

You can enjoy high quality sound by connecting the 3D WOOFER.



-
- 1** Align the front of the 3D WOOFER to corners A and B of your TV. Place the 3D WOOFER into the footholds and adjust it until it is stable.
 - 2** Connect the wires to the 3D WOOFER (8Ω) terminals at the rear of your TV. The red wire should be connected to the ⊕ red terminal and the black wire to the ⊖ black terminal.
-

Notes

- Connect only the supplied 3D WOOFER; otherwise your TV may malfunction.
- Unplug your TV from the wall outlet when connecting the 3D WOOFER.
- To prevent a malfunction caused by a short circuit of the terminals, make sure that none of the 3D WOOFER wire strands stick out, making contact with the neighbouring 3D WOOFER terminal.

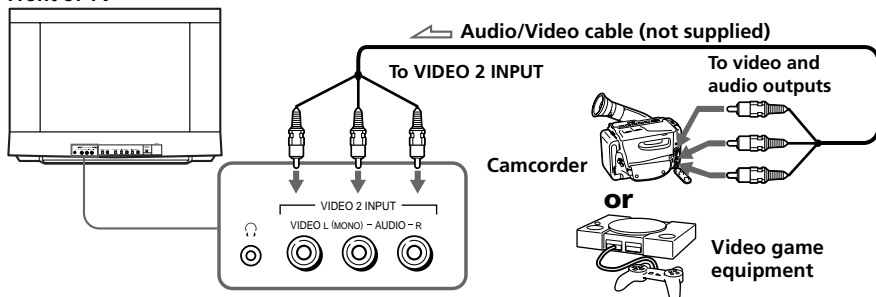
Connecting optional components

You can connect optional audio/video components, such as a VCR, multi disc player, camcorder, video game or stereo system.

To watch the video input of the connected equipment, press VIDEO (see page 12).

Connecting a camcorder/video game equipment using the video input jacks

Front of TV



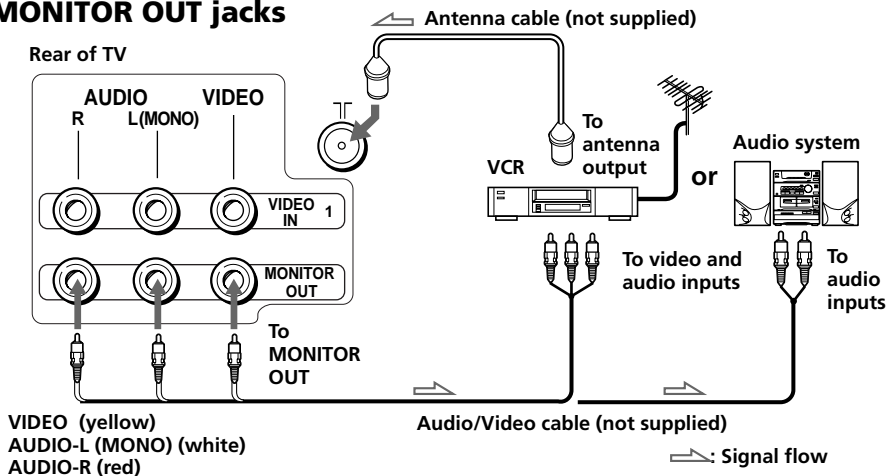
Notes

- With the "VIDEO MULTI SYSTEM" input terminal, you can also receive PAL, NTSC and SECAM video signals when using VIDEO IN 1 jacks at the rear of your TV or the VIDEO 2 INPUT at the front of your TV.
- You can also connect video equipment to the VIDEO IN 1 jacks at the rear of your TV.

➤ : Signal flow

Connecting audio/video equipment using the MONITOR OUT jacks

Rear of TV



Note

- If you connect a monaural VCR, connect the yellow plug to VIDEO (the yellow jack) and the black plug to AUDIO-L (MONO) (the white jack).

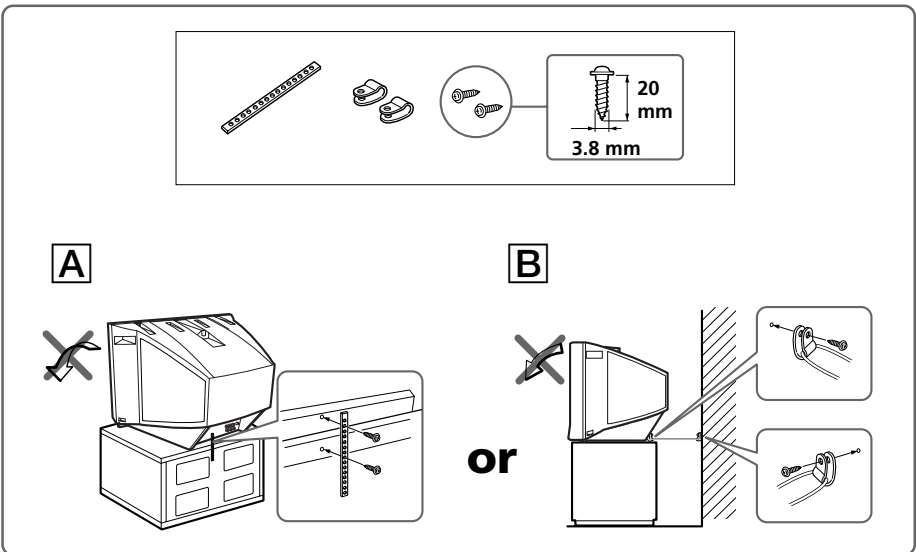
Securing the TV

To prevent the TV from falling, secure the TV using one of the following methods:

- A** With the supplied screws, attach the band to the TV stand and to the rear of the TV using the provided hole.

or

- B** Put the cord or chain through the clamps to secure the TV against a wall or pillar.

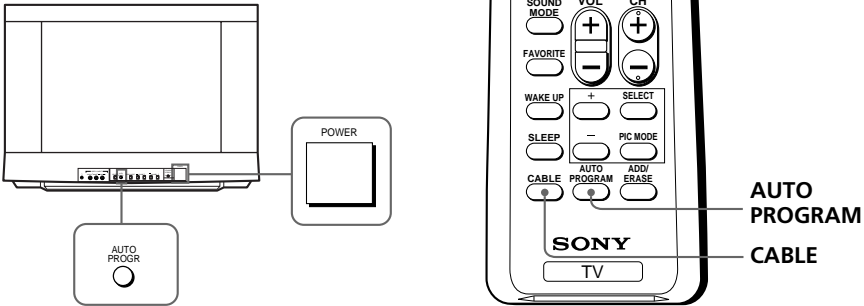


Note

- Use only the supplied screws. Use of other screws may damage the TV.

Presetting channels

You can preset cable TV, VHF or UHF broadcast channels using the remote and the buttons on your TV as well.

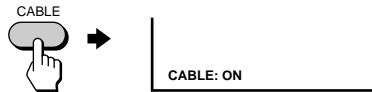


Presetting channels automatically

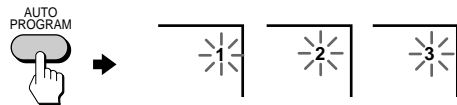
- 1 Press POWER on the TV to turn on the TV.



- 2 Press CABLE to select "CABLE: ON".



- 3 Press AUTO PROGRAM.

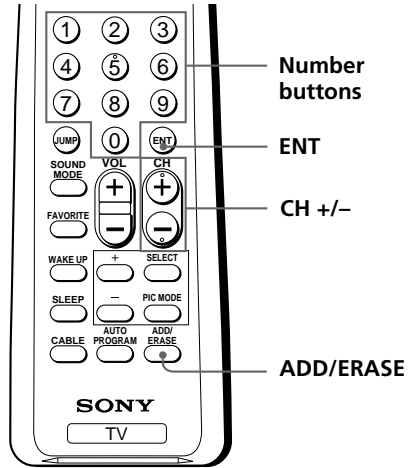


Notes

- If you select "CABLE: ON", you will be able to receive 125 cable TV channels.
If there are no cable TV channels, you will receive VHF broadcast channels only.
- If you select "CABLE: OFF", you will be able to receive 68 VHF or UHF broadcast channels only.

continued

Presetting channels (continued)

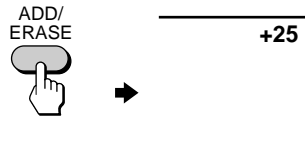


Presetting the channels manually

To receive a new channel or a channel with a weak signal, preset the channel manually.

1 Press number buttons to select the desired channel number, then press ENT.

2 Press ADD/ERASE.
“+” appears beside the channel number, indicating that presetting is complete.

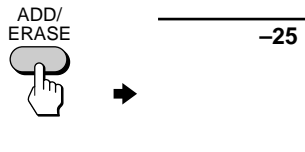


Disabling channel numbers

By disabling unused or unwanted channel numbers, you can skip those channel numbers when you press CH +/-.

1 Press CH +/- until the unused or unwanted channel numbers appears on the screen.

2 Press ADD/ERASE.
“-” appears beside the channel number, indicating that disabling is complete.

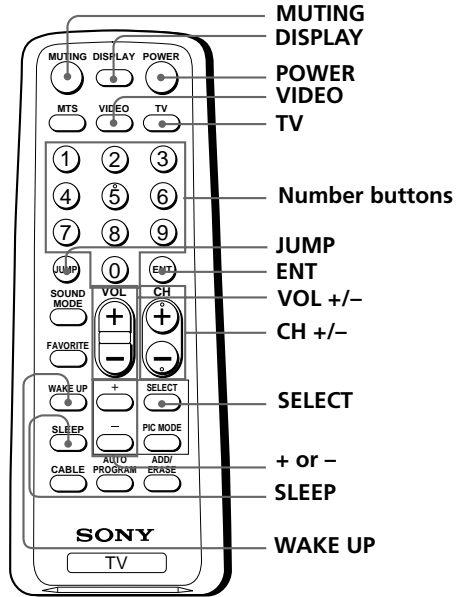
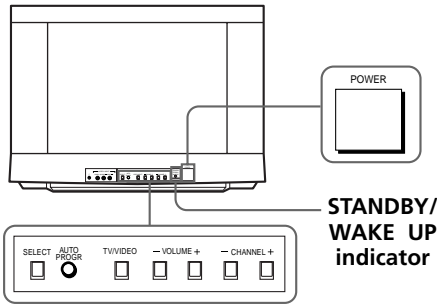


To cancel the skip setting

Preset the channel again.

Watching the TV

This section explains functions used while watching the TV. Most operations can be done using the remote.

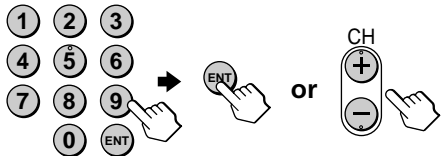


1 Press POWER to turn on the TV.

When the TV is in the standby mode (the STANDBY indicator on the TV is lit red), press POWER on the remote or CHANNEL +/- on the TV.



2 To select the channel number, press the number buttons and then press ENT, or press CH +/-.




3 Press VOL +/- to adjust the volume.



continued

Watching the TV (continued)

Additional tasks

To	Do this
Turn off temporarily	Press POWER on the remote. The STANDBY indicator on the TV lights up red.
Turn off completely	Press POWER on the TV.
Mute the sound	Press MUTING.
Watch the video input (VCR, camcorder, etc.)	Press VIDEO to select "VIDEO 1" or "VIDEO 2". To return to the TV program, press TV.
Change the color system setting (for the video input jack only)	Press SELECT repeatedly until "COLOR SYS" appears, then press + or - to select the appropriate color system until the color is optimal. 
Jump back to the previous channel number	Press JUMP.
Display the on-screen information*	Press DISPLAY.

* The picture, sound, and either the channel number or video input are displayed. The on-screen display for the picture and sound information disappears after about three seconds.

Changing the on-screen display language

- 1 Press SELECT until "LANGUAGE / 語文顯示 : ENGLISH " appears on the screen.



- 2 Press + or - to select "中文".



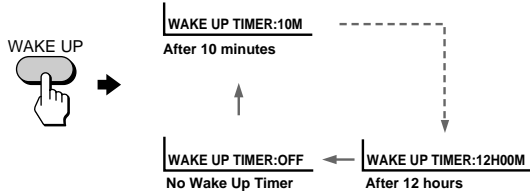
Tip

- You can also use SELECT and VOLUME +/- on the TV to select the on-screen display language.

Setting the Wake Up timer

- 1 Press WAKE UP until the desired period of time appears.

The Wake Up timer starts immediately after you have set it.



- 2 Select the channel number or video input you want to display when you wake up.
- 3 Press POWER on the remote or set the Sleep timer if you want the TV to turn off automatically.

The WAKE UP indicator on the TV lights up orange.

To cancel the Wake Up timer

Press WAKE UP until “WAKE UP TIMER: OFF” appears or turn off the TV’s main power.

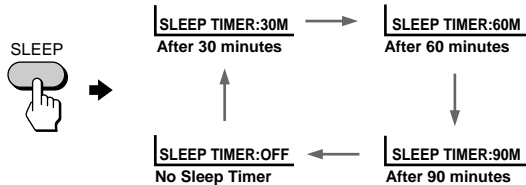
Note

- If no buttons or controls are pressed for more than two hours after the TV is turned on using the Wake Up timer, the TV automatically goes into the standby mode. To continue watching the TV, press any button or control on the TV or the remote.

Setting the Sleep timer

Press SLEEP until the desired period of time appears.

The Sleep timer starts immediately after you have set it.



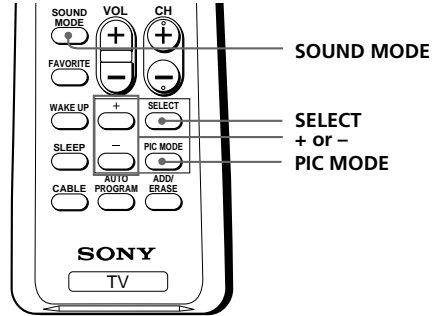
To cancel the Sleep timer

Press SLEEP until “SLEEP TIMER: OFF” appears or turn the TV off.

Customizing the picture and sound

You can customize the picture and sound by selecting the picture and sound modes or by adjusting its settings.

You can change the sound effect by selecting the surround mode.



Selecting the picture and sound modes

To select the picture mode

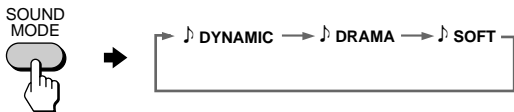
Press PIC MODE repeatedly until you get the desired picture mode.



Select	To
"DYNAMIC"	view high contrast pictures.
"STANDARD"	view normal contrast pictures.
"SOFT"	view mild pictures.

To select the sound mode

Press SOUND MODE repeatedly until you get the desired sound mode.



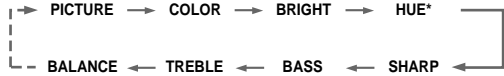
Select	To
"DYNAMIC"	listen to dynamic and clear sound that emphasizes the low and high sound.
"DRAMA"	listen to sound that emphasizes vocals and background music.
"SOFT"	listen to soft sound.

Adjusting the picture and sound settings

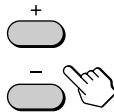
- 1** Press SELECT until the desired setting appears.



Each time you press SELECT, the setting item will change as follows:



- 2** Press + or – to adjust the item.



- 3** To adjust other items, repeat steps 1 to 2.

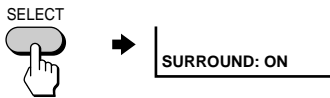
* "HUE" can be adjusted for the NTSC system only.

Notes

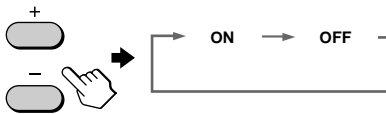
- When you select a picture or sound mode, the adjusted settings will be reset according to the selected mode.
- You can also use SELECT and VOLUME +/- on the TV to adjust the picture and sound settings.

Selecting the surround mode

- 1** Press SELECT repeatedly until "SURROUND" appears.



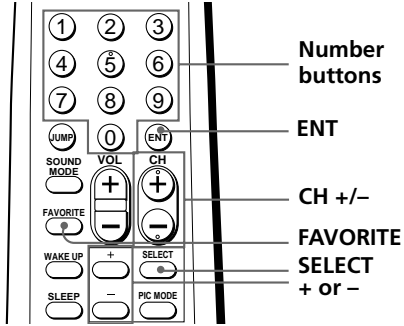
- 2** Press + or – to select "ON".



To turn off the surround mode, select "OFF".

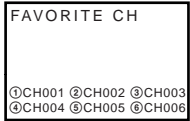
Viewing your favorite channels

You can display six of your favorite channels for quick and easy selection. You can program the favorite channel as well.

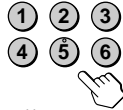


Selecting a favorite channel

1 Press FAVORITE.



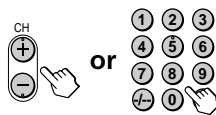
2 Press the number button from 1 to 6 to select the desired favorite channel.



When you use the "FAVORITE CH" feature for the first time, six preset favorite channels will appear.

Programming the favorite channel

1 Press CH +/- or number buttons to select the channel number you want to program (e.g., channel number 8).



2 Press SELECT until "FAVORITE CH SETUP" appears.



3 Press + or - to select the favorite channel you want to program (e.g., ③).



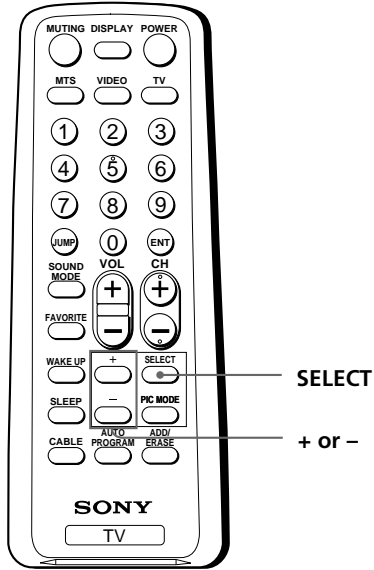
4 Press SELECT. The selected favorite channel (e.g., ③) turns red for about one second.



5 To program other favorite channels, repeat steps 1 to 4.

Blocking the channels (CHILD LOCK)

You can lock some channel numbers to prevent children from watching certain channels, by using the buttons on the remote control.





1 Select the channel number you want to lock.

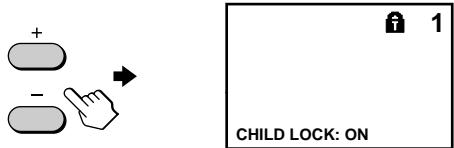
2 Press SELECT until "CHILD LOCK" appears on the screen.



3 Press + or - to select "ON".

The  symbol appears on the screen.

To cancel, press + or - to select "OFF". The  symbol disappears from the screen.

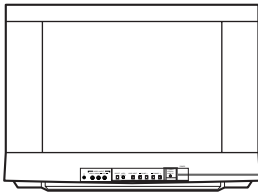


Note

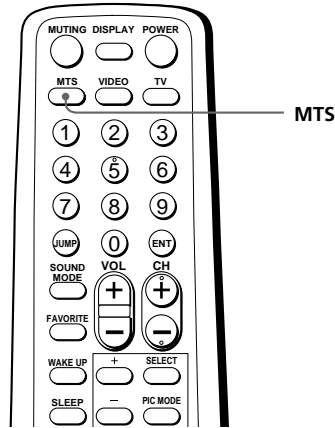
- If you preset a locked channel number automatically again, that particular channel number will be unlocked.

Enjoying stereo or bilingual programs

You can enjoy stereo sound or bilingual programs of MTS stereo system.



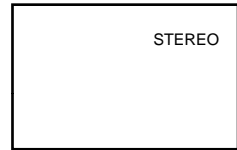
STEREO indicator



MTS

Press MTS repeatedly until you receive the sound you want.

The on-screen display changes to show the selected sound. The STEREO indicator on the TV lights up red when receiving any stereo program.



When receiving a MTS program



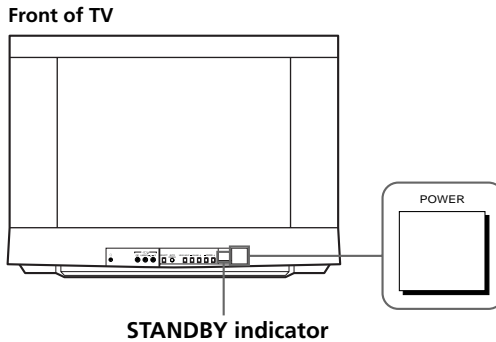
Select	To
"STEREO"	Listen to stereo broadcast sound.
"SAP"	Listen to SAP broadcast sound.
"MONO"	Listen to monaural sound.

Notes

- When select SAP, non-SAP program sound will be same as STEREO mode sound.
- When the signal is very weak, the SAP or STEREO broadcast sound may become abnormal. To improve the sound, select "MONO".

Self-diagnosis function

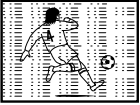







Your TV is equipped with a self-diagnosis function. If there is a problem with your TV, the STANDBY indicator flashes red. The number of times the STANDBY indicator flashes indicates the possible causes.









- 1** Check that the STANDBY indicator flashes red a number of times between 3-second intervals.
- 2** Count the number of times the STANDBY indicator flashes.
- 3** Press POWER to turn off your TV.
- 4** Inform your nearest Sony service center about the number of times the STANDBY indicator flashes.
Be sure to note the model name and serial number located on the rear of your TV.

Troubleshooting

If you find any problem while viewing your TV, please check the following guide. If any problem persists, contact your Sony dealer .

Symptom	Possible cause	Solutions	Page
Snowy picture 	<ul style="list-style-type: none"> • Connection is loose or the cable is damaged. • Channel presetting is inappropriate or incomplete. 	<ul style="list-style-type: none"> • Check the antenna cable and connection on the TV, VCR and on the wall. • Preset the channel again. 	<p>4</p> <p>10</p>
Noisy sound 	<ul style="list-style-type: none"> • The antenna type is inappropriate. • The antenna direction is inappropriate. • Signal transmission is low. 	<ul style="list-style-type: none"> • Check the antenna type (VHF/UHF). Contact a Sony dealer for advice. • Adjust the antenna direction. Contact a Sony dealer for advice. • Try using a booster. 	<p>-</p> <p>-</p> <p>-</p>
Distorted picture 	<ul style="list-style-type: none"> • Broadcast signals are too strong. 	<ul style="list-style-type: none"> • Turn off or disconnect the booster if it is in use. 	<p>-</p>
Noisy sound 			
Good picture 	<ul style="list-style-type: none"> • Channel presetting is inappropriate or incomplete. 	<ul style="list-style-type: none"> • If the sound of all the channels are noisy, then press AUTO PROGRAM to preset the channels again. 	<p>9</p>
Noisy sound 			
No picture 	<ul style="list-style-type: none"> • The power cord, antenna or VCR is not connected. • The TV is not turned on. 	<ul style="list-style-type: none"> • Check the power cord, antenna and the VCR connections. • Press POWER on the remote. • Press POWER on the TV to turn off the TV for about five seconds, then turn it on again. 	<p>4</p> <p>12</p> <p>11</p>
No sound 			

Symptom	Possible cause	Solutions	Page
Good picture 	<ul style="list-style-type: none"> The volume level is too low. 	<ul style="list-style-type: none"> Press VOL + to increase the volume level. 	11
No sound 	<ul style="list-style-type: none"> The sound is muted. 	<ul style="list-style-type: none"> Press MUTING to cancel the muting. 	12
Dotted lines or stripes 	<ul style="list-style-type: none"> There is local interference from cars, neon signs, hair dryers, power generators, etc. 	<ul style="list-style-type: none"> Do not use a hair dryer or other equipment near the TV. Adjust the antenna direction for minimum interference. Contact a Sony dealer for advice. 	–
Double images or "ghosts" 	<ul style="list-style-type: none"> Broadcast signals are reflected by nearby mountains or buildings. 	<ul style="list-style-type: none"> Use a highly directional antenna. 	–
	<ul style="list-style-type: none"> The antenna direction is inappropriate. 	<ul style="list-style-type: none"> Adjust the antenna direction. Contact a Sony dealer for advice. 	–
	<ul style="list-style-type: none"> Use of a booster is inappropriate. 	<ul style="list-style-type: none"> Turn off or disconnect the booster if it is in use. 	–
No color 	<ul style="list-style-type: none"> The color level setting is too low. 	<ul style="list-style-type: none"> Press SELECT until "COLOR" appears on the screen, then press + or – to adjust the color level. 	15
	<ul style="list-style-type: none"> The antenna direction is inappropriate. 	<ul style="list-style-type: none"> Adjust the antenna direction. Contact a Sony dealer for advice. 	–
Abnormal color patches 	<ul style="list-style-type: none"> The magnetic disturbance from external speakers or other equipment, or the direction of the earth's magnetic field may affect the TV. 	<ul style="list-style-type: none"> Keep external speakers or other electrical equipment away from the TV. Do not move the TV while the TV is turned on. Press POWER on the TV to turn off the TV for about 15 minutes, then turn it on again. 	–
TV cannot receive stereo broadcast signal	<ul style="list-style-type: none"> The stereo reception setting is inappropriate. 	<ul style="list-style-type: none"> Press MTS until "STEREO" appears on the screen. 	18

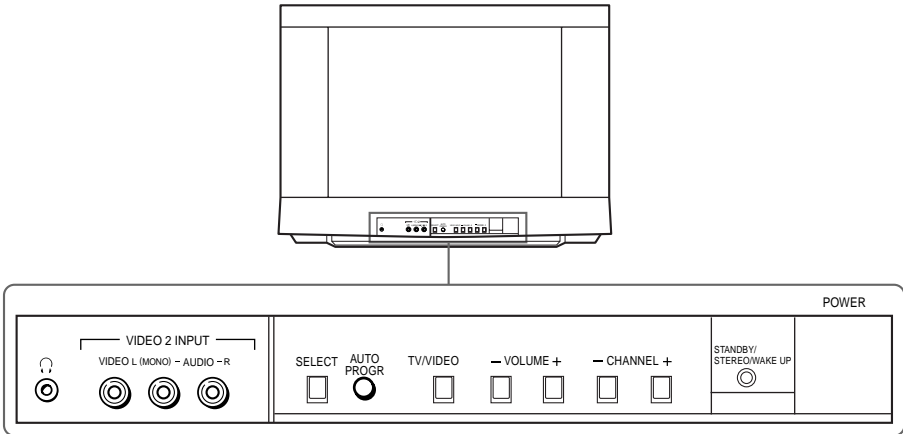
continued

Troubleshooting (continued)

Symptom	Possible cause	Solutions	Page
Stereo broadcast sound switches on and off or is distorted. OR The sound switches between monaural and stereo frequently.	<ul style="list-style-type: none"> • Connection is loose or the cable is damaged. 	<ul style="list-style-type: none"> • Check the antenna cable and connection on the TV, VCR and on the wall. 	4
	<ul style="list-style-type: none"> • The antenna direction is inappropriate. 	<ul style="list-style-type: none"> • Adjust the antenna direction. Contact a Sony dealer for advice. 	—
	<ul style="list-style-type: none"> • Broadcast signal has a transmission problem. 	<ul style="list-style-type: none"> • Press MTS until a better sound is heard. 	18
The STANDBY indicator on your TV flashes red a number of times between 3-second intervals.	<ul style="list-style-type: none"> • Your TV may need service. 	<ul style="list-style-type: none"> • Contact your nearest Sony service center. 	19
TV cabinet creaks.	<ul style="list-style-type: none"> • Changes in room temperature sometimes make the TV cabinet expand or contract, making a noise. This does not indicate a malfunction. 	—	—
A “boom” sound is heard when the TV is turned on.	<ul style="list-style-type: none"> • The TV’s demagnetizing function is working. This does not indicate a malfunction. 	—	—

Overview of controls

TV front panel

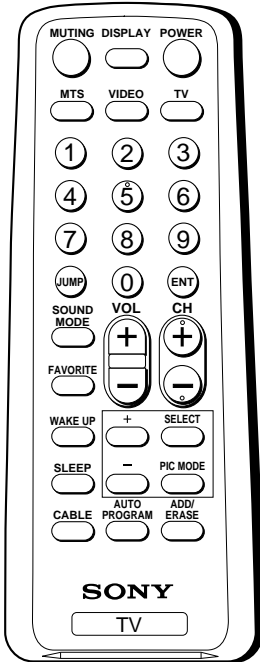


Button	Function	Page
AUTO PROGR	Preset channels automatically.	5
CHANNEL +/-	Select channel number.	11
POWER	Turn off completely or turn on the TV.	11
VOLUME +/-	Adjust volume.	11
STANDBY	Standby indicator.	11
TV/VIDEO	Select TV or video input.	12
SELECT	Select the desired item.	12
WAKE UP	Wake up indicator.	13
STEREO	Stereo indicator.	18
🎧	Headphone jack.	-

continued


Overview of controls (continued)

Remote Control



Button	Function	Page
CABLE	Select the cable TV.	5
POWER	Turn off temporarily or turn on the TV.	9
AUTO PROGRAM	Preset channels automatically.	9
CH +/-	Select channel number.	10
ADD/ERASE	Preset channels manually.	10
0-9	Input numbers.	11
ENT	Confirm input number.	11
VOL +/-	Adjust volume.	11
MUTING	Mute the sound.	12
TV	Display the TV program.	12
VIDEO	Select TV or video input.	12
JUMP	Jump to previous channel number.	12
DISPLAY	Display on-screen information.	12
SELECT	Select the desired items.	12
+/-	Adjust item.	12
Timer operations		
WAKE UP	Set TV to turn on automatically.	13
SLEEP	Set TV to turn off automatically.	13
PIC MODE	Select picture mode.	14
SOUND MODE	Select sound mode.	14
FAVORITE	Display favorite channels.	16
Stereo/bilingual operations		
MTS	Select stereo/bilingual mode.	18

Specifications

	KV-XA21N93	Note
Power requirements	110-240 V AC, 50/60 Hz	
Power consumption (W)	Indicated on the rear of the TV	
Television system	M	
Color system	NTSC3.58, PAL*, PAL 60*, SECAM*, NTSC 4.43*	* AV IN only
Stereo/bilingual system	MTS	
Channel coverage	VHF : 2 to 13 UHF : 14 to 69 CATV : 1 to 125	
⌋ (Antenna)	75-ohm external terminal	
Audio output (Speaker)	3W + 3W	
3D WOOFER	9W	
Number of terminal		
Video	Input: 2 Output: 1 Phono jacks; 1 Vp-p, 75 ohms	
Audio	Input: 2 Output: 1 Phono jacks; 500 mVrms	
	Output: 1 Stereo minijack	
Picture tube	21 in.	
Tube size (cm)	54	Measured diagonally
Screen size (cm)	51	Measured diagonally
Dimensions (w/h/d)	620 × 482 × 496 mm	
Mass	28 kg	

Design and specifications are subject to change without notice.