

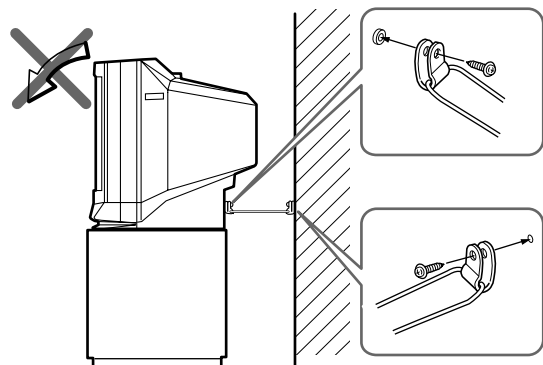
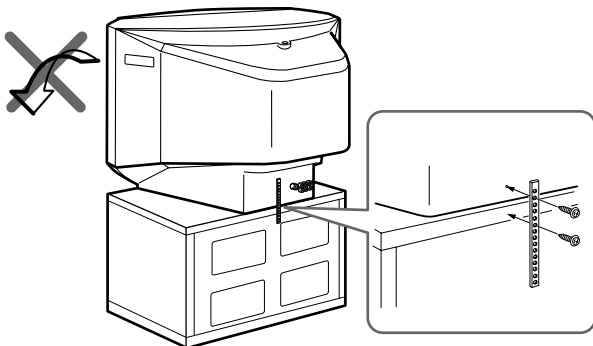
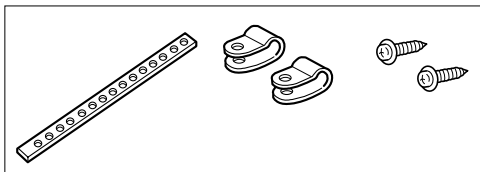
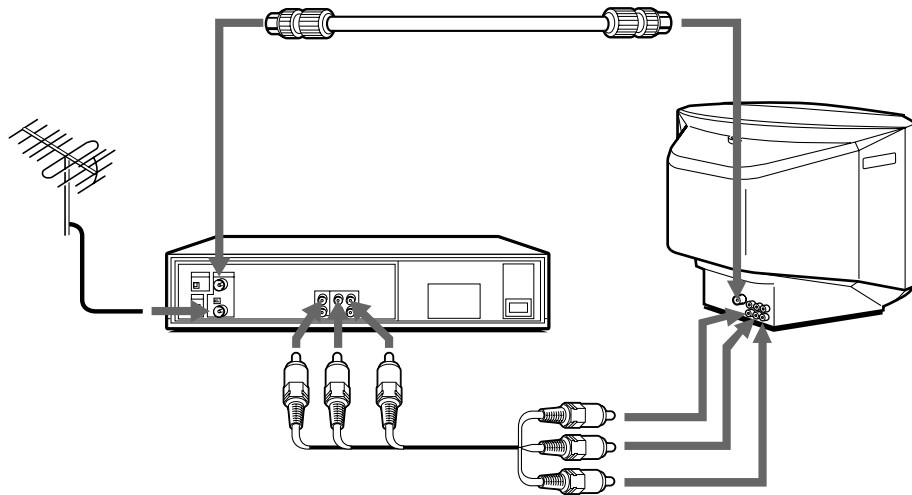
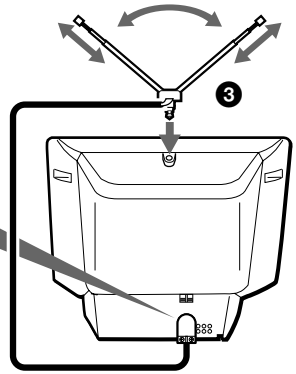
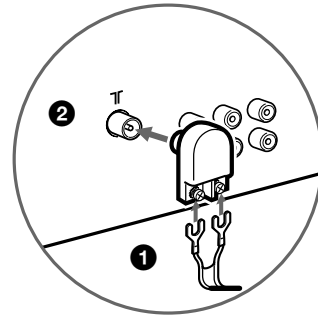
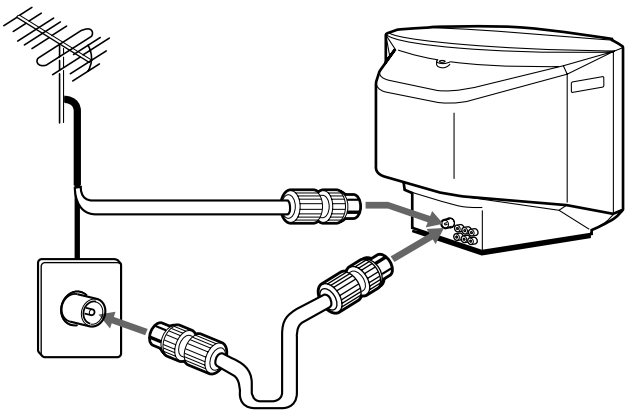
# ***Trinitron<sup>®</sup> Color TV***

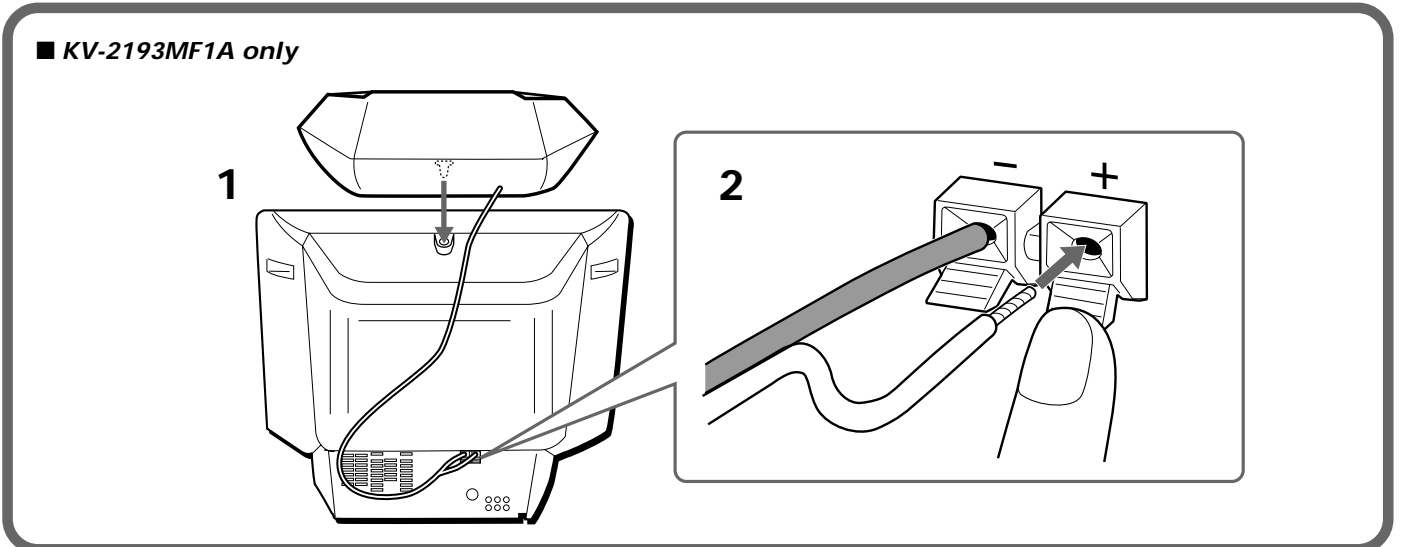
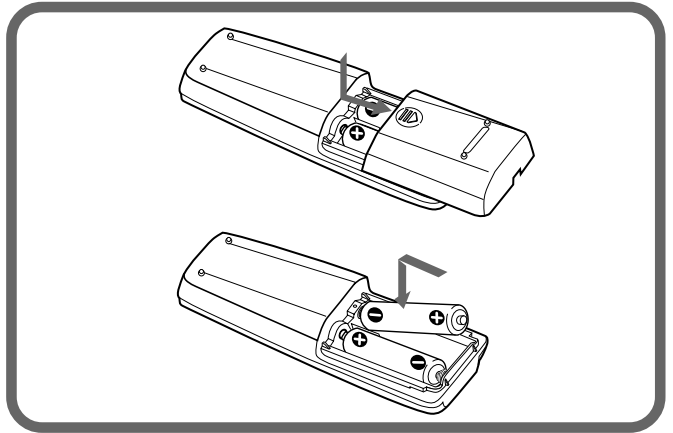
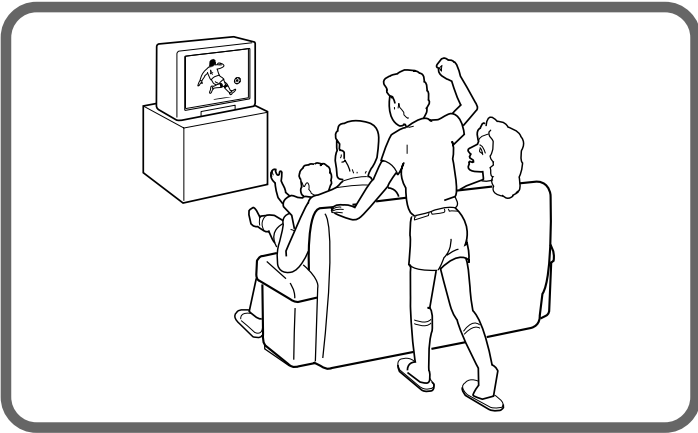
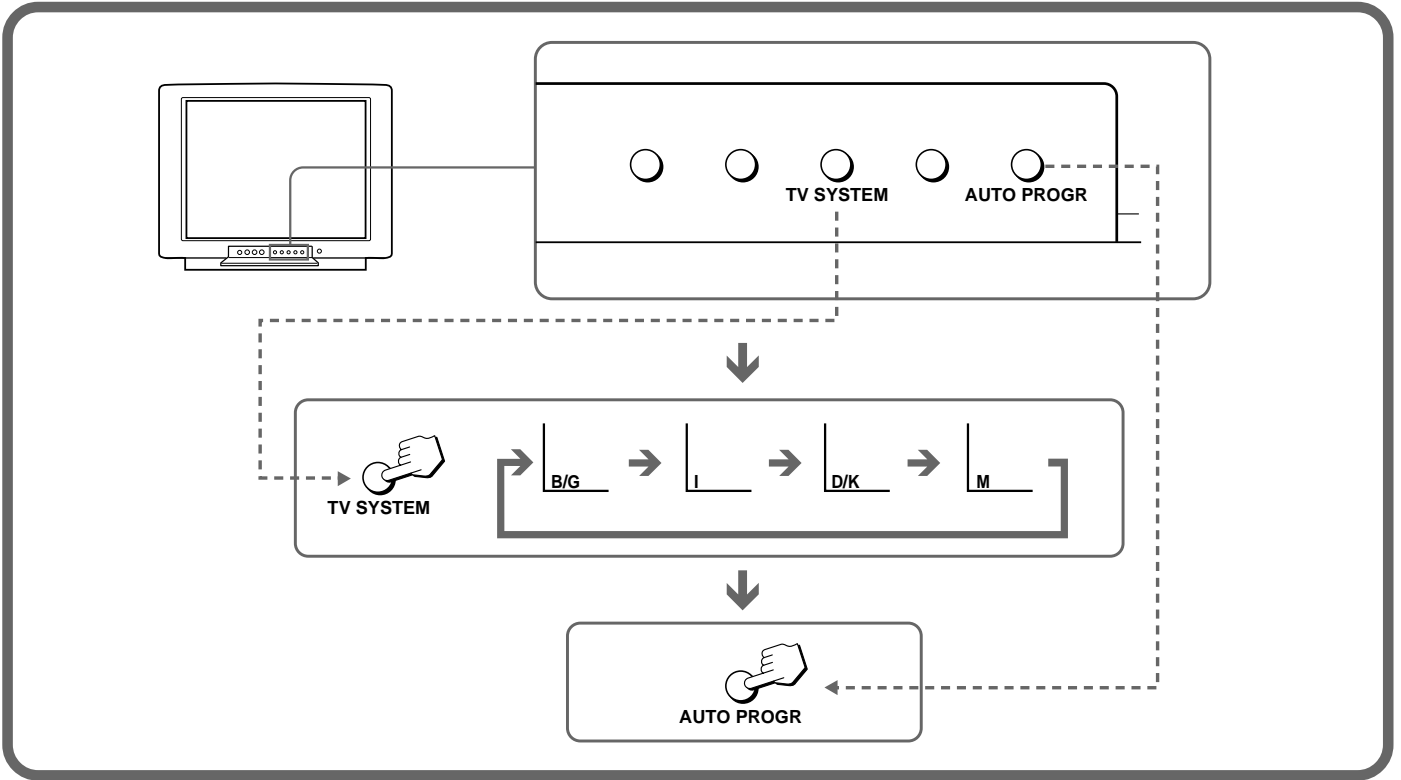
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Operating Instructions

***KV-2193MF1***  
***KV-2193MF1A***

■ KV-2193MF1 only

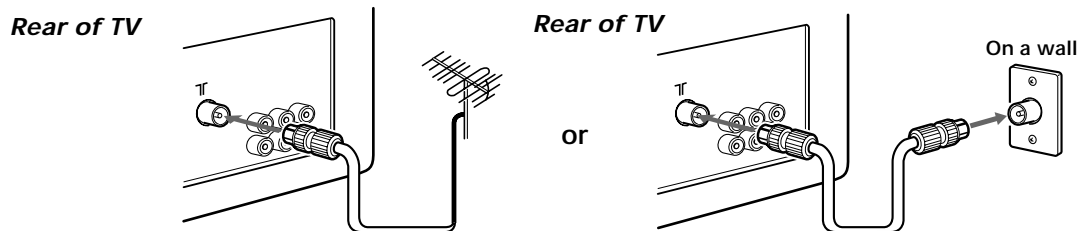




# Connections

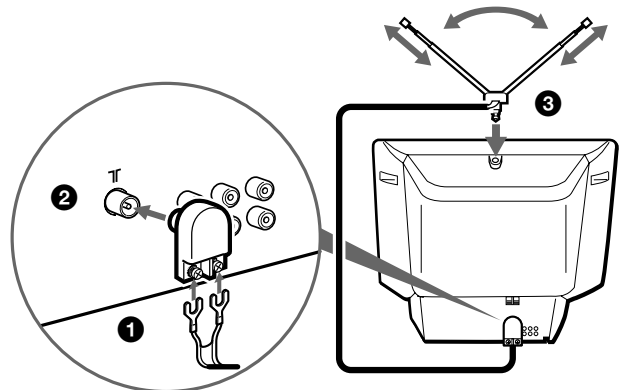
## Connecting a VHF antenna or a combination VHF/UHF antenna — 75-ohm coaxial cable (round)

Attach an optional IEC antenna connector to the 75-ohm coaxial cable. Plug the connector into the  $\Upsilon$  (antenna) socket at the rear of the TV.



## Connecting an indoor antenna

■ *KV-2193MF1 only*



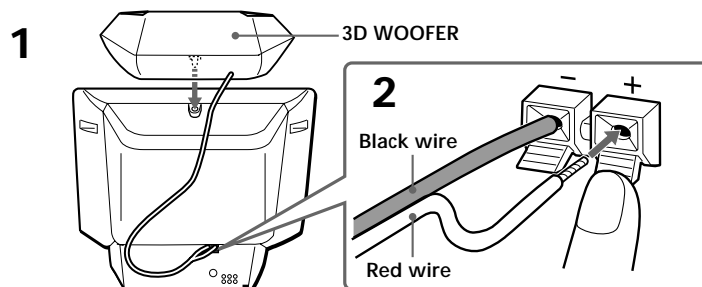
### Note

- You are advised to use an outdoor antenna for better reception.

## Connecting the 3D WOOFER

■ *KV-2193MF1A only*

- 1 Attach the 3D WOOFER into the foothold on the top of the TV.
- 2 Connect the wires to the 3D WOOFER (8 $\Omega$ ) terminals at the rear of the TV.  
The red wire should be connected to the  $\oplus$  red terminal and the black wire to the  $\ominus$  black terminal.



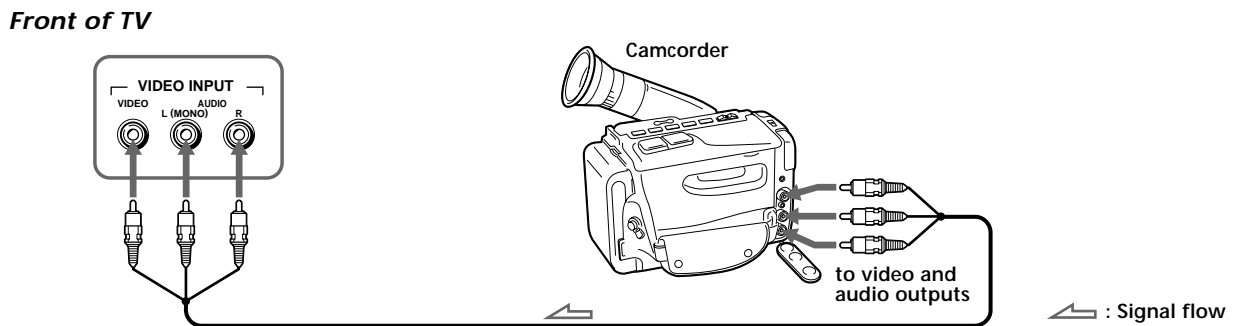
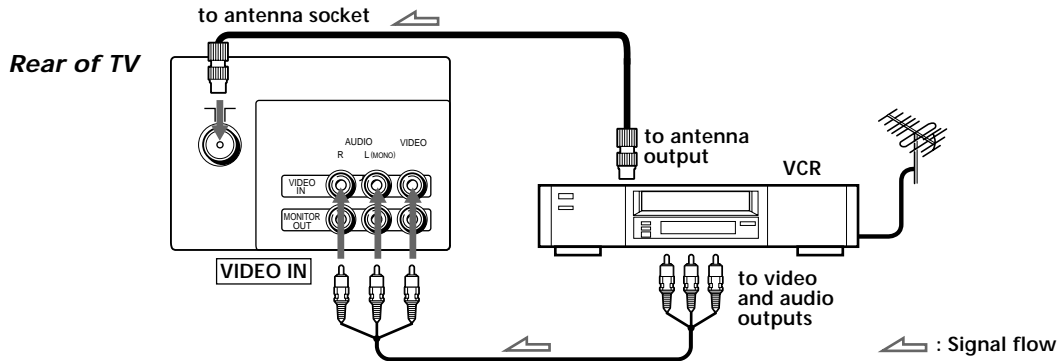
### Notes

- Connect only the supplied 3D WOOFER; otherwise the TV may malfunction.
- Unplug the 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 speaker terminal.

## Connecting optional equipment

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

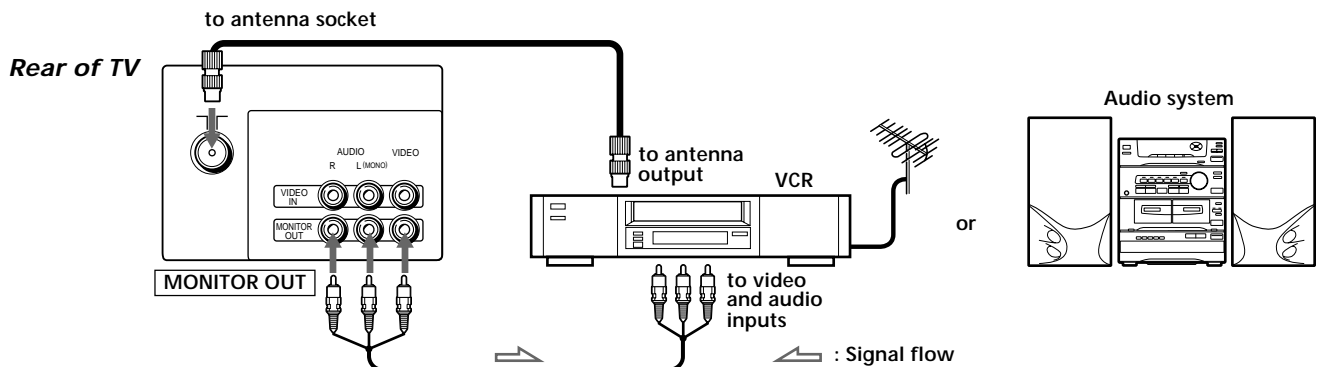
### Connecting video equipment using video input jacks



### When using the video input jacks

Do not connect video equipment to the video input jacks at the front and the rear of your TV simultaneously; otherwise the picture will not be displayed properly on the screen.

### Connecting audio/video equipment using MONITOR OUT jacks



### When recording through the MONITOR OUT jacks

If you change the channel or video input while recording with a VCR, the channel or video input you are recording also will be changed.

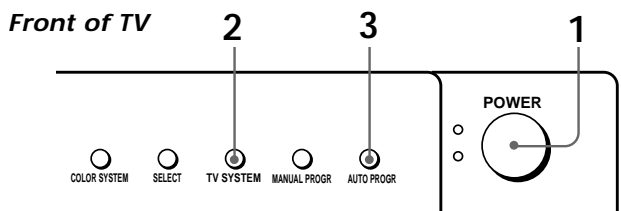
# Presetting channels

You can preset up to 100 TV channels in numerical sequence from program position 1 automatically.

To change the channel for a particular program position or to receive a channel with a weak signal, you can preset the channel manually. You can also disable program position.

You can preset TV channels using the buttons on the TV or the remote commander.

## Presetting channels automatically using the buttons on the TV

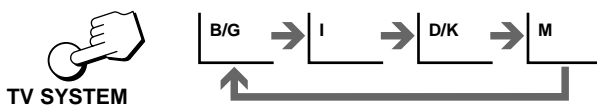


**1** Press **POWER** to turn on the TV.

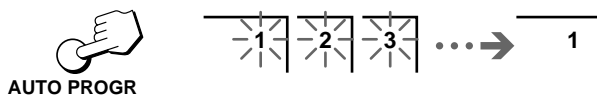


When the TV is turned on in standby mode, press **POWER** on the remote commander.

**2** Press **TV SYSTEM** until your local TV system appears.



**3** Press **AUTO PROGR**.



To start presetting channels automatically from the specified program position

- 1 Press **MANUAL PROGR**.
- 2 Press **TV SYSTEM** to select your local TV system.
- 3 Press **PROGR +/-** to select the program position.
- 4 Press **AUTO PROGR**.

## Presetting channels manually using the buttons on the TV

- 1** Press **MANUAL PROGR**.
- 2** Press **PROGR +/-** on the remote commander until the required program position appears on the screen.
- 3** Press **TV SYSTEM** until your local TV system appears.
- 4** Press **VOLUME +/-** until the required channel picture appears on the screen.
- 5** Press **MANUAL PROGR**.

### If the TV system is not properly selected

The color of the picture may be poor and/or the sound may be noisy. In this case, select the appropriate TV system.

- 1** Press **PROGR +/-** on the remote commander to select the program position.
- 2** Press **TV SYSTEM** until the picture and sound become normal.

### Notes

- If you do not know your local TV system, consult your nearest authorized service center or dealer.
- The setting of the **TV SYSTEM** is memorized for each program position.

## Disabling program positions using the buttons on the TV

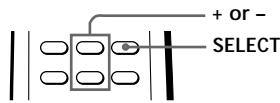
By disabling unused or unwanted program positions, you can skip those positions when you press **PROGR +/-** on the remote commander.

- 1** Press **PROGR +/-** on the remote commander until the unused or unwanted program position appears on the screen.
- 2** Press **MANUAL PROGR**.
- 3** Press **PIC MODE** on the remote commander.
- 4** Press **MANUAL PROGR**.

### To cancel the skip setting

Preset the channel manually or automatically again.

## Presetting channels automatically using the remote commander

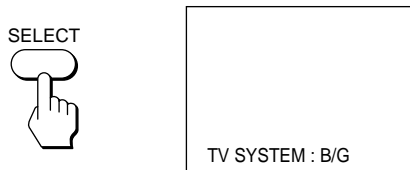


**1** Press **POWER** to turn on the TV.

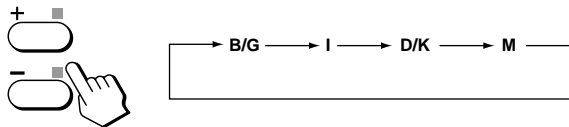


When the TV is turned on in standby mode, press **POWER** on the remote commander.

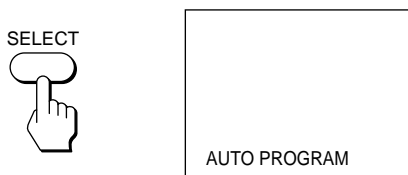
**2** Press **SELECT** until “**TV SYSTEM**” appears.



**3** Press **+ or -** to select your local TV system.



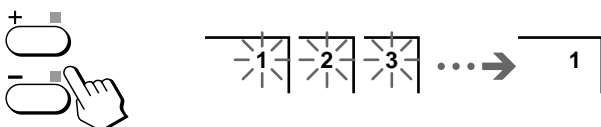
**4** Press **SELECT** until “**AUTO PROGRAM**” appears.



**5** Press **+ or -**.

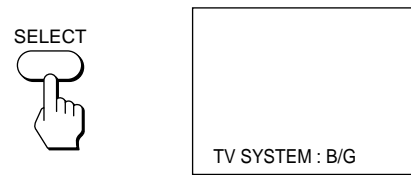


**6** Press **+ or -**.

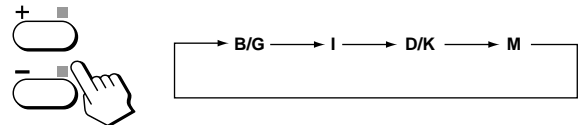


## Presetting channels manually using the remote commander

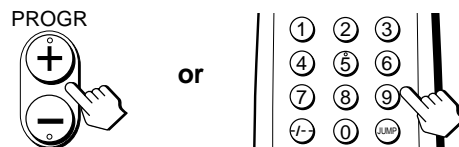
**1** Press **SELECT** until “**TV SYSTEM**” appears.



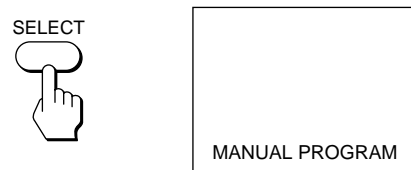
**2** Press **+ or -** to select your local TV system.



**3** Press **PROGR +/-** or a number button until the required program appears on the screen.



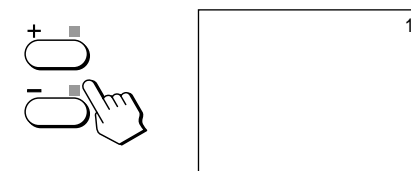
**4** Press **SELECT** until “**MANUAL PROGRAM**” appears.



**5** Press **+ or -**.



**6** Press **+ or -**.



The selected channel appears on the screen.

**7** Press **SELECT** to return to normal screen.



---

## **If you are not satisfied with the picture and sound quality**

You may be able to further improve the picture and sound quality by using fine tuning as below:

- 1** Select the program position you want to adjust.
- 2** Press SELECT until "MANUAL PROGRAM" appears on the screen.
- 3** Press + or - on the remote commander once.
- 4** Press DISP until "FINE" appears on the screen.
- 5** Press + or - continuously until you are satisfied with the picture and sound quality.
- 6** Press SELECT to return to normal screen.



# Watching the TV

## 1 Press POWER to turn on the TV.

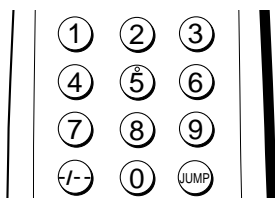


When the TV is turned on in standby mode, press POWER on the remote commander.

## 2 Select the TV program you want to watch.

To select a program position directly

Press the number button.



To select a two-digit program position, press “-/--” before pressing the number buttons.

For example: to select program position 25, press “-/--,” and then “2” and “5.”

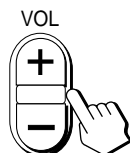


To scan through program positions

Press PROGR +/- until the program position you want appears.



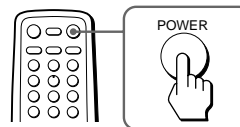
## 3 Press VOL +/- to adjust the volume.



## Turning off the TV

To turn off the TV temporarily

Press POWER on the remote commander. The STANDBY indicator on the TV lights up.



To turn off the TV completely

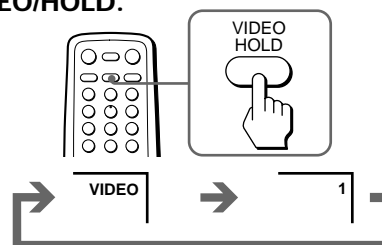
Press POWER on the TV.

If the power on the TV is turned off in standby mode, the STANDBY indicator on the TV may remain alight for a while.



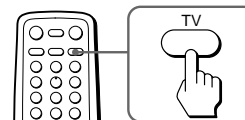
## Watching the video input

Press VIDEO/HOLD.



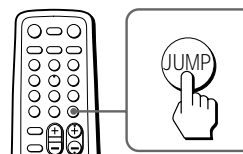
To watch TV

Press TV.



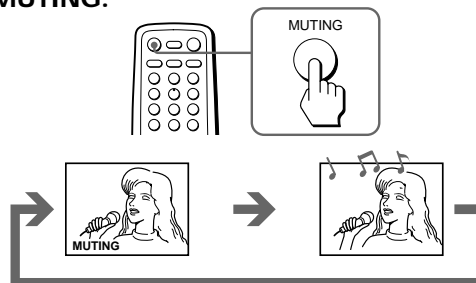
## Switching back quickly to the previous channel

Press JUMP.



## Muting the sound

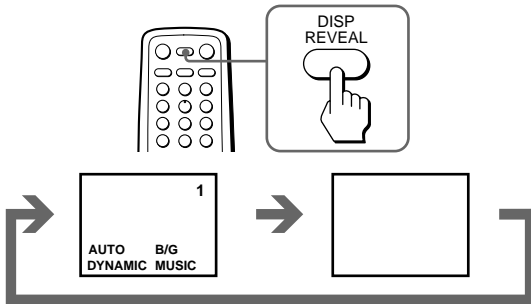
Press MUTING.



## Displaying on-screen information

Press **DISP/REVEAL**.

The program position, local system, and TV settings are displayed on the screen.

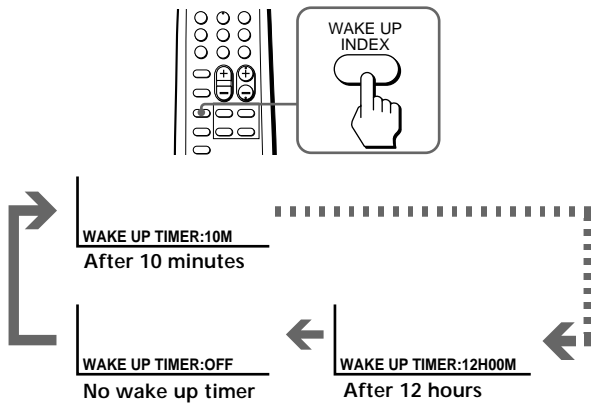


## Setting the Wake Up Timer

You can set the TV to automatically turn on as you have programmed.

**1** Press **WAKE UP/INDEX** repeatedly to set the timer.

The on-screen display appears and the WAKE UP indicator on the TV lights up.



**2** If you want a particular TV program or video input to be displayed using the Wake Up Timer, select the TV program or video input.

**3** Press **POWER** on the remote commander or set the Sleep Timer to turn off the TV in standby mode.

To cancel the Wake Up Timer, press **WAKE UP/INDEX** repeatedly until “WAKE UP TIMER: OFF” appears, or turn off the main power of the TV.

### Notes

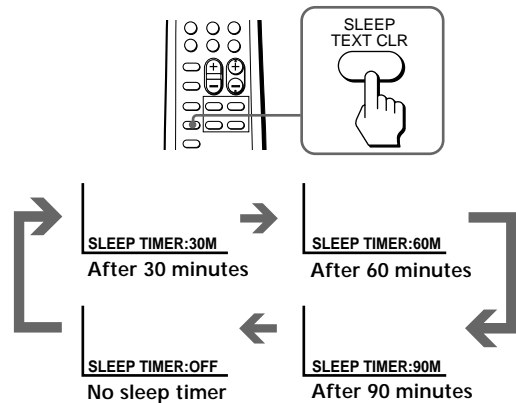
- The Wake Up Timer starts immediately after the on-screen display disappears.

- The last TV program position or video input just before the TV turns into standby mode will appear when the TV is turned on using the Wake Up Timer.
- 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 turns into standby mode. If you want to continue watching the TV, press any button or control on the remote commander or the TV.

## Setting the Sleep Timer

You can set the TV to automatically turn off as you have programmed.

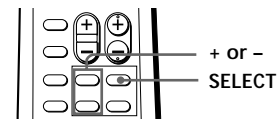
Press **SLEEP/TEXT CLR**.



To cancel the Sleep Timer, press **SLEEP/TEXT CLR** repeatedly until “SLEEP TIMER: OFF” appears, or turn off the TV.

## Changing the on-screen display language

You can use buttons on the remote commander or the TV to change the on-screen display language.



**1** Press **SELECT** until the screen appears as follows:



**2** Press **+ or -** to select “عربي”.

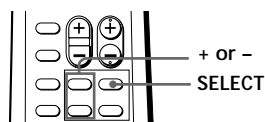


### Note

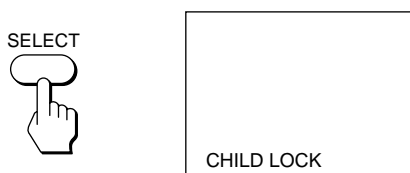
- You can also use **SELECT** and **VOLUME +/-** on the TV to select the on-screen display language.

# Using the Child Lock feature

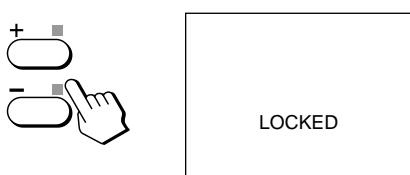
You can prevent a child from watching certain program positions by using the buttons on the remote commander.



- 1 Select the TV program you want to lock.
- 2 Press SELECT until "CHILD LOCK" appears on the screen.



- 3 Press + or - until "LOCKED" appears on the screen.



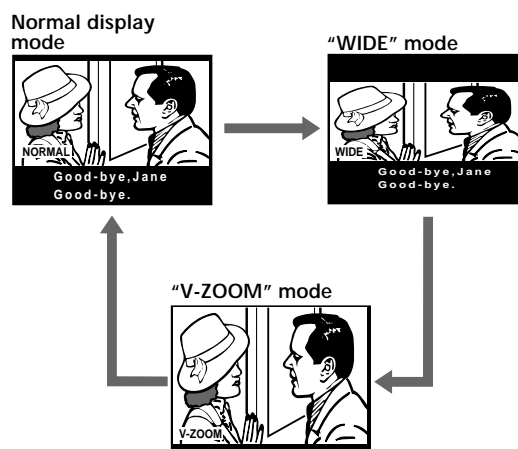
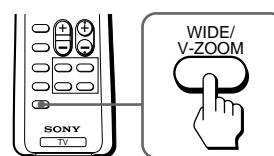
## Notes

- To unlock the program position, repeat steps 1 to 3 as above until "LOCKED" disappears from the screen.
- To prevent your child from unlocking the program position, keep the remote commander away from your child.

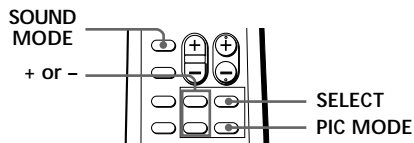
# Watching the picture in wide mode

You can adjust the display mode accordingly to fit the programs to your TV screen size.

Press WIDE/V-ZOOM repeatedly until the wide display mode you want appears on the screen.

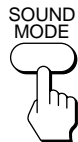


# Adjusting the sound and picture

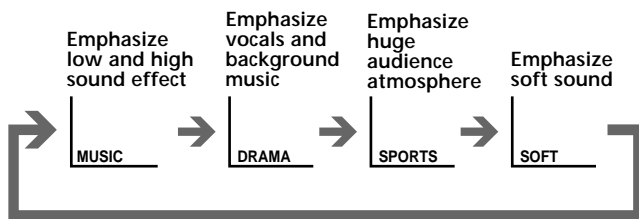


## Selecting the sound mode

Press **SOUND MODE** until the mode you want appears.

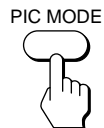


Each time you press **SOUND MODE**, the screen changes as follows:

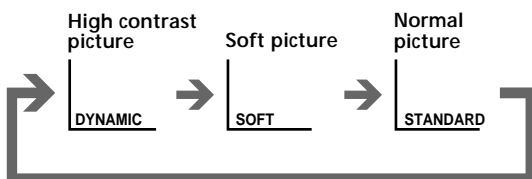


## Selecting the picture mode

Press **PIC MODE** until the mode you want appears.



Each time you press **PIC MODE**, the screen changes as follows:



### Note

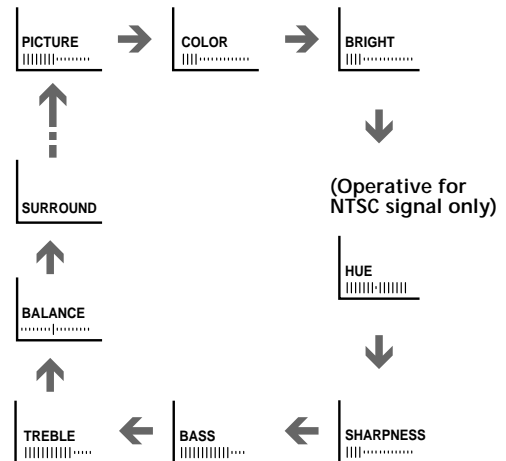
- If you change the picture and sound mode after the following adjustments, the adjustment changes in accordance with the picture and sound mode.

## Adjusting the sound and picture settings

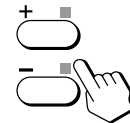
- Press **SELECT** until the item you want to adjust appears.



Each time you press **SELECT**, the screen changes as follows:



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

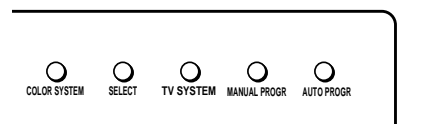


- To adjust other items, repeat steps 1 and 2.

### Notes

- You can also use **SELECT** and **VOLUME +/-** on the TV to adjust the sound and picture settings.
- SURROUND** is only applicable to a stereo signal. When receiving a monaural signal, please turn off **SURROUND** for the best sound.

### Front of TV



### If the picture color is abnormal when receiving programs through the **⌚ (antenna) terminal**

Change the "TV SYSTEM" or "COLOR SYSTEM" setting or adjust the "COLOR" level in the on-screen display until the color becomes normal.

### If the picture color is abnormal when receiving programs through the video input jack

Change the "COLOR SYSTEM" setting or adjust the "COLOR" level in the on-screen display until the color becomes normal.

### Note

- Normally set "COLOR SYSTEM" to "AUTO".

### If the sound is distorted or noisy when receiving programs through the **⌚ (antenna) terminal**

Change the "TV SYSTEM" setting in the on-screen display until the sound becomes clear.

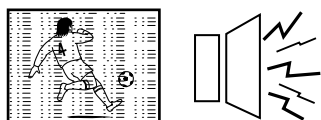
# Troubleshooting

If you have any problems, read this manual again and check the countermeasure for each of the symptoms listed below.

If the problem persists, contact your nearest authorized service center or dealer.

## Snowy picture

### Noisy sound



- ➔ Check the antenna.
- ➔ Check the antenna connection on the TV and on the wall.
- ➔ Check the TV SYSTEM setting.

## Dotted lines or stripes



- ➔ This may be caused by local interference (e.g. cars, neon signs and hair dryers). Adjust the antenna for minimum interference.

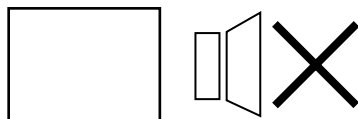
## Double images or "ghosts"



- ➔ This may be caused by reflections from nearby mountains or buildings. A highly directional antenna may improve the picture.

## No picture

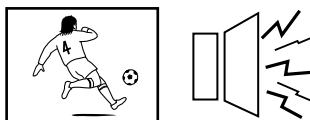
### No sound



- ➔ Press POWER.
- ➔ Check the antenna connection.
- ➔ Check the VCR connections.
- ➔ Check the power cord connection.
- ➔ Check the standby mode.

## Good picture

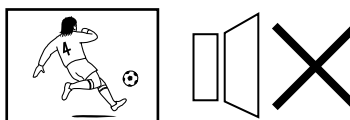
### Noisy sound



- ➔ Check the TV SYSTEM setting.
- ➔ Reduce the TREBLE level or select the "SOFT" sound mode.

## Good picture

### No sound



- ➔ Press VOLUME +.
- ➔ Press MUTING.
- ➔ Press A/B/ENLARGE.

## No color



- ➔ Adjust the COLOR level in the on-screen display.
- ➔ Check the COLOR SYSTEM setting.

## TV cannot receive stereo signal

- ➔ Press A/B/ENLARGE until "AUTO" appears on the screen.

## TV cabinet creaks

- ➔ Even if the picture or the sound is normal, changes in the room temperature sometimes make the TV cabinet expand or contract, making a noise. This does not indicate a malfunction.

## Note on the remote commander

- The supplied remote commander is used on several models of the TV. If you do not find instructions for some controls that are on the remote commander, that means your TV does not employ the features of those controls, e.g. TEXT.

## Notes

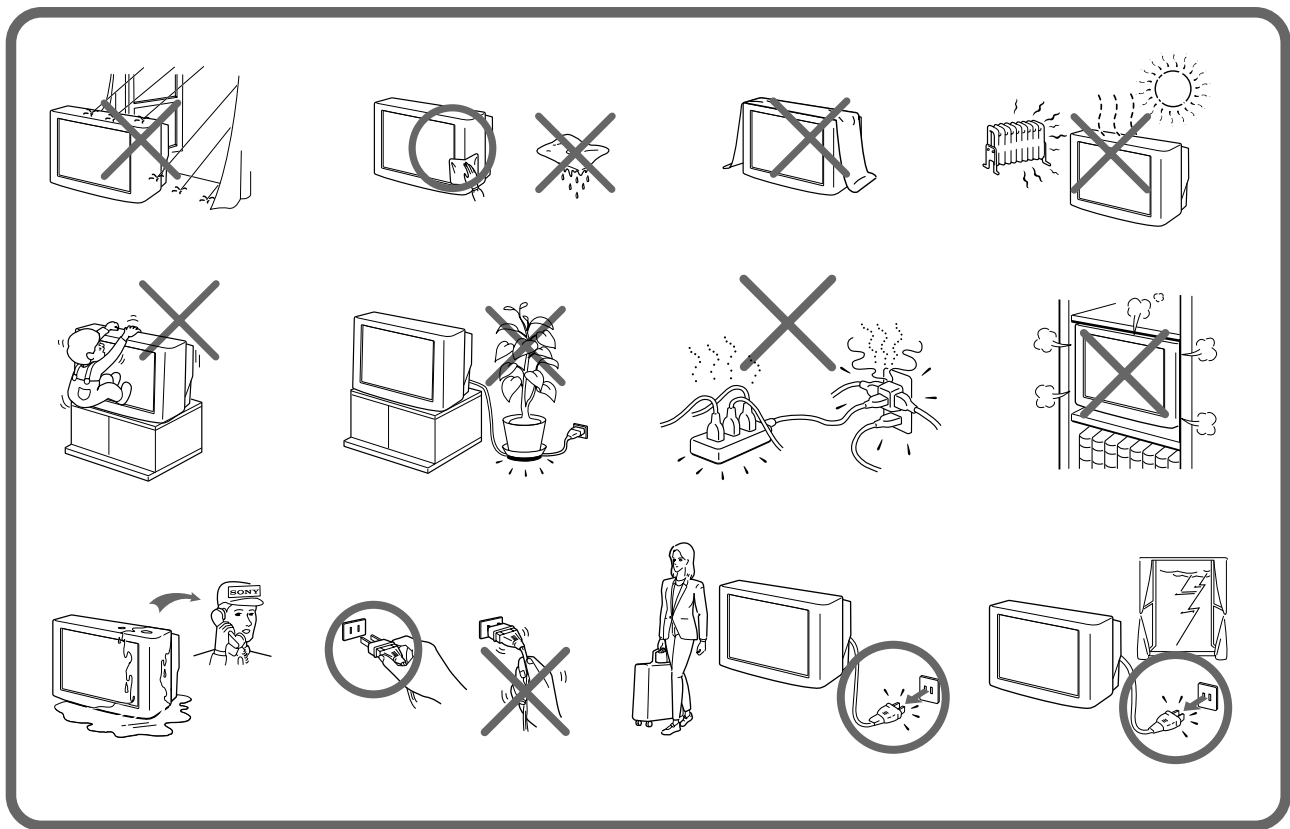
- When you switch on the TV, you may hear the "boon" sound that is caused by the demagnetization of the TV. This does not indicate a malfunction.
- The picture color may become abnormal if you change the direction of your TV. To obtain the normal picture color, press POWER on the TV to switch off the TV for five minutes and then switch it on again.

## WARNING

Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.







## Specifications

|                               | KV-2193MF1  | KV-2193MF1A                 | Note                |
|-------------------------------|---|-----------------------------|---------------------|
| <b>Power requirements</b>     | 110-240 V AC, 50/60 Hz  |                             |                     |
| <b>Power consumption (W)</b>  | Indicated on the rear of the TV   |                             |                     |
| <b>Television system</b>      | B/G, I, D/K, M  |                             |                     |
| <b>Color system</b>           | PAL, PAL 60, SECAM, NTSC4.43, NTSC3.58  |                             |                     |
| <b>Channel coverage</b>       |   |                             |                     |
| <b>B/G</b>                    | UHF: E2 to E12 / UHF: E21 to E69 / CATV: S01 to S03, S1 to S41  |                             |                     |
| <b>I</b>                      | UHF: B21 to B68 / CATV: S01 to S03, S1 to S41   |                             |                     |
| <b>D/K</b>                    | VHF: C1 to C12, R1 to R12 / UHF: C13 to C57, R21 to R60 / CATV: S01 to S03, S1 to S41, Z1 to Z39              |                             |                     |
| <b>M</b>                      | VHF: A2 to A13 / UHF: A14 to A79 / CATV: A-8 to A-2, A to W+4, W+6 to W+84                                    |                             |                     |
| <b>Audio output (speaker)</b> | 3W + 3W   | 3W + 3W + 7W<br>(3D WOOFER) |                     |
| <b>Inputs</b>                 | Antenna: 75 ohms<br>VIDEO IN jacks: phono jacks<br>Video: 1 Vp-p, 75 ohms<br>Audio: 500 mVrms, high impedance |                             |                     |
| <b>Outputs</b>                | Headphone jack: minijack<br>MONITOR OUT jacks: phono jacks<br>Video: 1 Vp-p, 75 ohms<br>Audio: 500 mVrms      |                             |                     |
| <b>Picture tube</b>           | 21 in.  |                             |                     |
| <b>Tube size (cm)</b>         | 54  |                             | Measured diagonally |
| <b>Screen size (cm)</b>       | 51  |                             | Measured diagonally |
| <b>Dimensions (w/h/d,mm)</b>  | 610 × 470 × 484   | 610 × 516 × 484             |                     |
| <b>Mass (kg)</b>              | 22  | 25                          |                     |

Design and specifications are subject to change without notice.