

Trinitron® Color TV

Operating Instructions

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

KV-PF21
KV-PF14

M70
M40
P70
Q70
Q40

WARNING

- Dangerously high voltages are present inside the TV.
- TV operating voltage: 110 – 240 V AC. (For Hong Kong only: 220 – 240 V AC.)

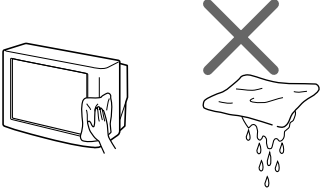
<p>Do not open the cabinet and the rear cover of the TV. Refer servicing to qualified personnel.</p>	
<p>To prevent fire or shock hazard, do not expose the TV to rain or moisture.</p>	<p>Do not operate the TV if any liquid or solid object falls into it. Have it checked immediately by qualified personnel only.</p>
<p>Do not install the TV in a confined space, such as a bookcase or built-in cabinet. Do not block the ventilation openings of the TV.</p>	
<p>Pull the power cord out by the plug. Do not pull the power cord itself.</p>	
	<p>Do not install the TV in hot, humid or excessively dusty places.</p>

Table of Contents

WARNING

Using Your New TV

Getting Started	4
Step 1: Connect the antenna	4
Step 2: Insert the batteries into the remote	5
Step 3: Preset the channels automatically	5
Connecting optional components	6
Securing the TV (KV-PF21M70/PF21M40/PF21P70/PF21Q70/ PF21Q40 only)	7
Presetting channels	8
Watching the TV	11

Advanced Operations

Customizing the picture and sound	14
Blocking the channels (CHILD LOCK)	16

Additional Information

Self-diagnosis function	17
Troubleshooting	18
Identifying parts and controls	21
Specifications	Back cover

The features you will enjoy include:

- PICTURE MODE/SOUND MODE for customizing your TV (page 14)

Your TV also offers the following setup features:

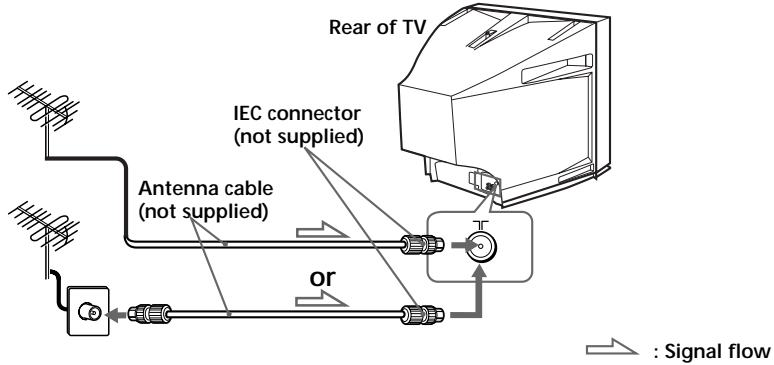
- On-screen display language options – English/Chinese (page 12)
- CHILD LOCK for preventing children from watching certain channels (page 16)
- INTELLIGENT VOL for automatic volume adjustment (page 12)

Getting Started

Step 1

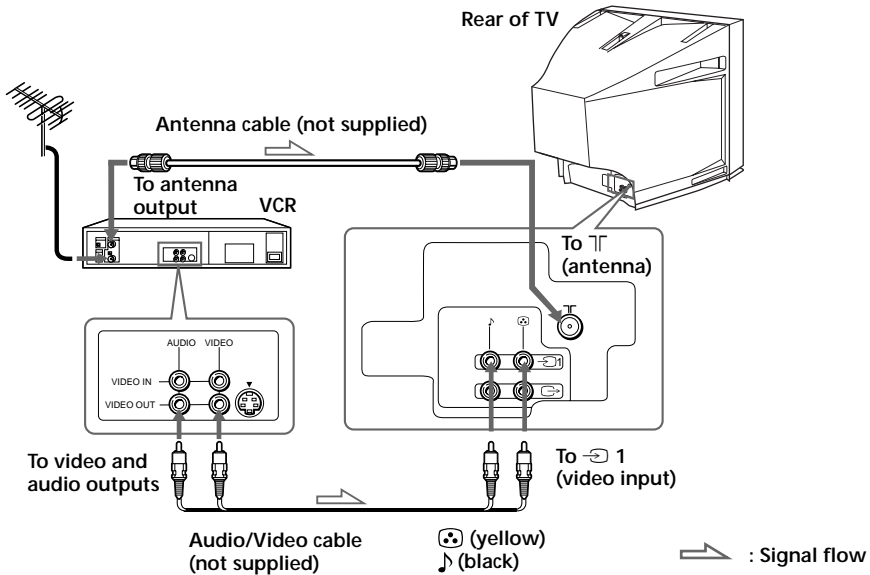
Connect the antenna

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






Connecting a VCR

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



Notes

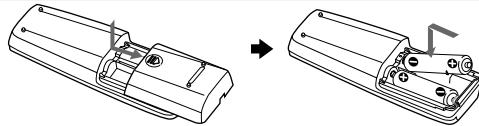
- If you connect a stereo VCR, connect the yellow plug to  (the yellow jack) and the white plug to  (the black jack).
- If you connect a VCR to the  (antenna) terminal, preset the signal output from the VCR to the program number 0 on the TV.
- When no signal is input to the connected video equipment, 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.

Step 2

Insert the batteries into the remote

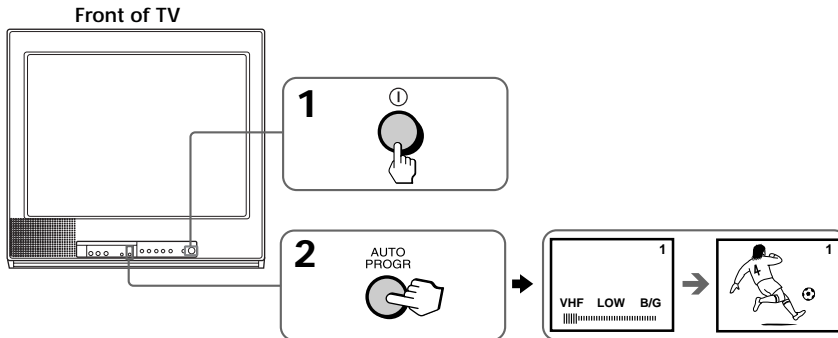


Note

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

Step 3

Preset the channels automatically



Tips

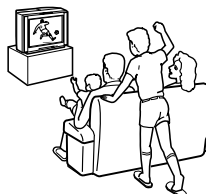
- If you want to stop automatic channel presetting, press SELECT twice.
- If your TV has preset an unwanted channel or cannot preset a particular channel, then preset your TV manually (see page 9).

Note (KV-PF21M70/PF21M40/PF14M70/PF14M40)

- During automatic channel presetting, your TV screen will indicate "B/G", "I", "D/K" or "M" for the TV system.

Now You Are Ready . . .

To watch your TV, see page 11.

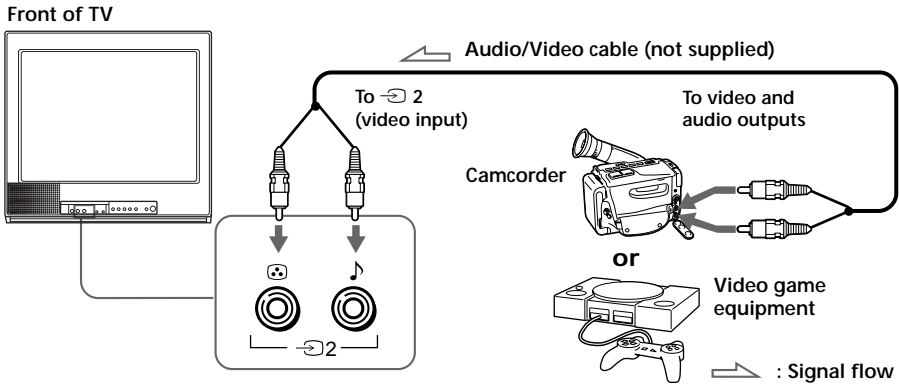


Connecting optional components

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

To watch the picture of the connected equipment, press \rightarrow TV (see page 12).

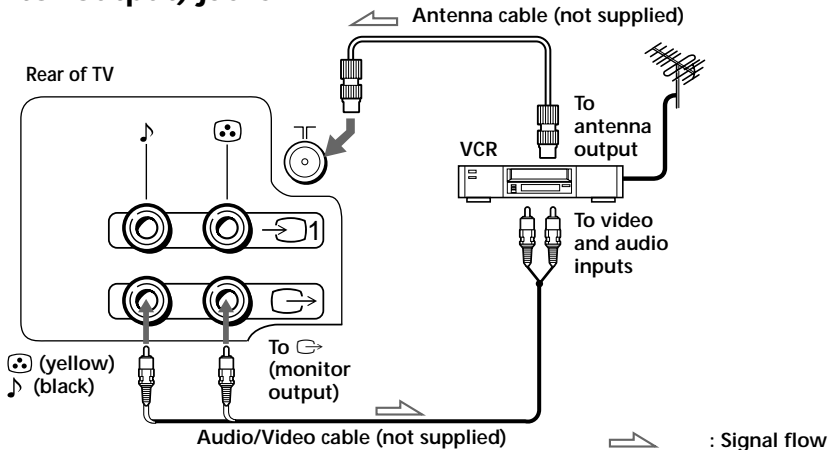
Connecting a camcorder/video game equipment using the \rightarrow 2 (video input) jacks



Note

- You can also connect video equipment to the \rightarrow 1 (video input) jacks at the rear of your TV.

Connecting video equipment using the \rightarrow (monitor output) jacks



Note

- When connecting a stereo VCR, connect the yellow plug to TV (the yellow jack) and the white plug to TV (the black jack).

Securing the TV

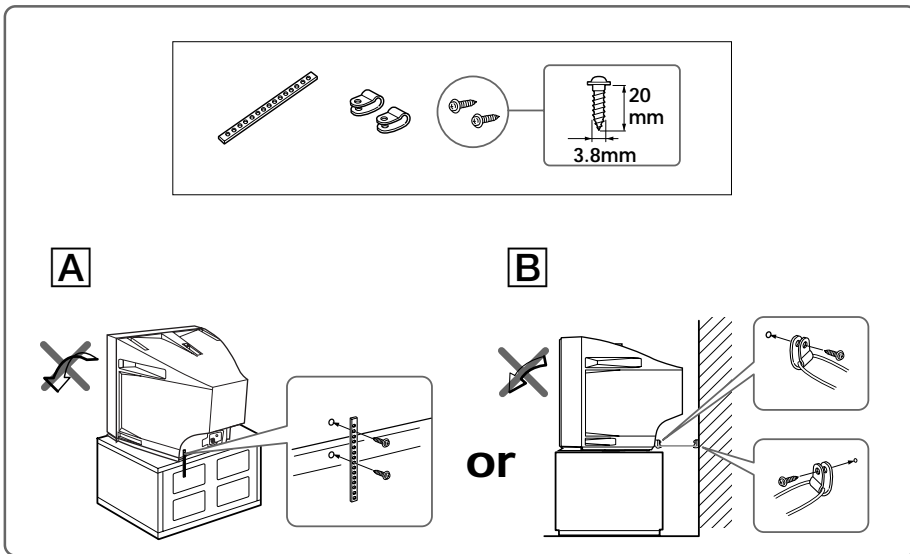
(KV-PF21M70/PF21M40/PF21P70/PF21Q70/PF21Q40 only)

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.

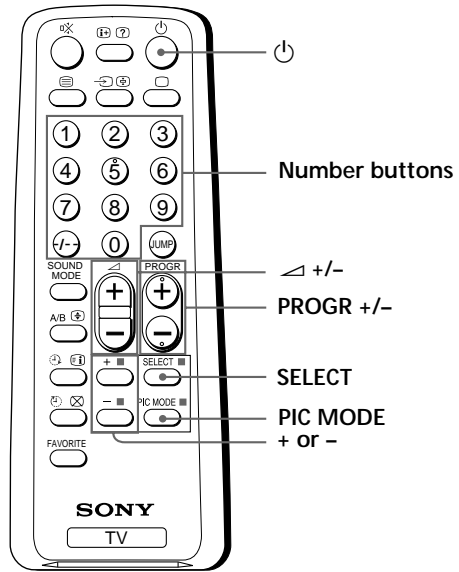
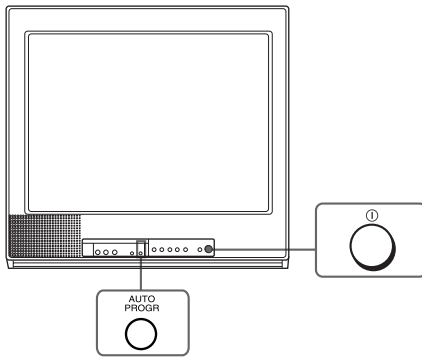


Note

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

Presetting channels

You can preset up to 100 TV channels in numerical sequence from program number 1 using the remote and the buttons on your TV as well.



Presetting channels automatically

- 1 Press **⓪** to turn on the TV.



- 2 Press **AUTO PROGR**.



Note (KV-PF21M70/PF21M40/PF14M70/PF14M40)


- During automatic channel presetting, your TV screen will indicate “B/G”, “I”, “D/K” or “M” for the TV system.


To preset channels automatically from a specified program number

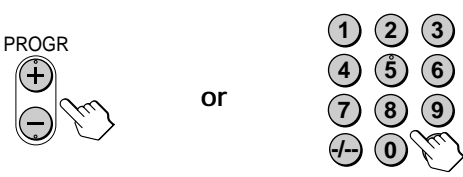
- (1) Press **SELECT** until “AUTO PROGRAM” appears.
- (2) Press **+ or -**.
The on-screen display will start flashing.
- (3) Press **PROGR +/-** or the number buttons until the desired program number appears.
- (4) Press **+ or -**.

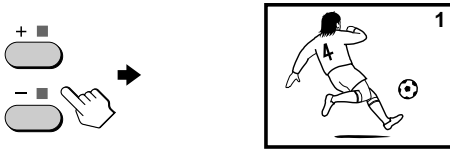
Presetting channels manually

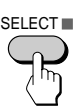
- 1** Press SELECT until "MANUAL PROGRAM" appears.


- 2** Press + or -.


- 3** Press PROGR +/- or the number buttons until the desired program number appears.


- 4** Press + or - until the desired channel picture appears.


- 5** Press SELECT.



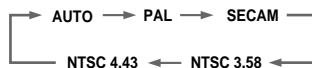
To change the color system setting

If the color is abnormal when receiving programs through the ㄏ (antenna) terminal or the ㊄ (video input) jack

(1) Press SELECT until "COL SYS" appears.



(2) Press + or - to select the appropriate color system until the color is optimal.



Tip

- Normally set "COL SYS" to "AUTO".

Note

- The color system "SECAM" is not available for KV-PF21P70/PF14P70.
The color system "NTSC3.58" is not available for KV-PF21Q70/PF21Q40/
PF14Q70/PF14Q40.

continued

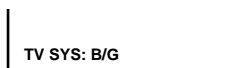
Presetting channels (continued)

To change the TV system setting

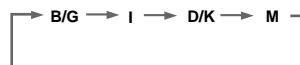
(KV-PF21M70/PF21M40/PF14M70/PF14M40 only)

If the picture or sound is abnormal when receiving programs through the ㊦ (antenna) terminal

(1) Press SELECT until “TV SYS” appears.



(2) Press + or - to select the appropriate TV system until the picture or sound quality is optimal.



Skipping program numbers

1 Press PROGR +/- or the number buttons until the unused or unwanted program number appears.

2 Press SELECT until “MANUAL PROGRAM” appears.

3 Press + or -.

4 Press PIC MODE.

5 Press SELECT.

To preset the skipped program number again

Preset the channel automatically or manually.

Tip

- You can also use SELECT and ㊦ +/- on the TV to preset channels and skip program numbers.

To use the fine tuning (FINE) function

The fine tuning (FINE) function may help to reduce the following problems: double images and lines moving across the TV screen.

You can use the fine tuning function as below:

- (1) Select the program number you want to adjust.
- (2) Press SELECT until “MANUAL PROGRAM” appears on the screen.
- (3) Press + or - on the remote control once.
- (4) Press **i+** **?** to display “FINE” on the screen.
- (5) Press + or - continuously until the above problems are minimized.
The + or - icon on the screen flashes while tuning.
- (6) Press SELECT to return to normal screen.



Watching the TV (continued)

Additional tasks

To	Do this
Turn off temporarily	Press . The indicator on the TV lights up red.
Turn off completely	Press on the TV.
Mute the sound	Press .
Watch the video input (VCR, camcorder, etc.)	Press to select "VIDEO 1" or "VIDEO 2". To return to the TV program, press .
Jump back to the previous channel	Press JUMP.
Display the on-screen information*	Press .
Adjust the volume of each TV program automatically	Press SELECT repeatedly until "INTELLIGENT VOL" appears, then press + or - to select "ON". To cancel, select "OFF".

* The picture, sound, and either the program number or video mode are displayed. The on-screen display for the picture and sound information disappears after about 3 seconds.

Changing the on-screen display language

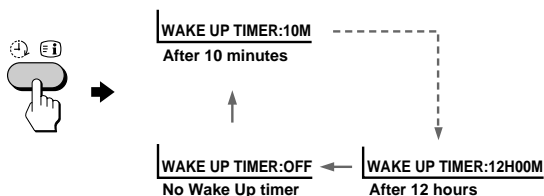
- 1 Press SELECT until "LANGUAGE / 语言: ENGLISH" appears on the screen.

- 2 Press + or - to select "中文".


Tip

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

Setting the Wake Up timer

- 1 Press until the desired period of time appears.
The Wake Up timer starts immediately after you have set it.



- 2 Select the TV program or video mode you want to display when you wake up.
- 3 Press or set the Sleep timer if you want the TV to turn off automatically.
The indicator on the TV lights up orange.

To cancel the Wake Up timer

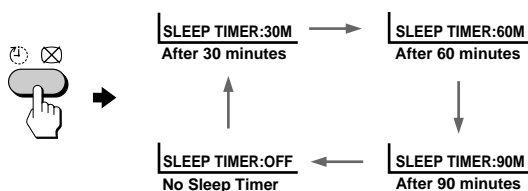
Press until “WAKE UP TIMER: OFF” appears or turn off the TV’s main power.

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 until the desired period of time appears.
The Sleep timer starts immediately after you have set it.

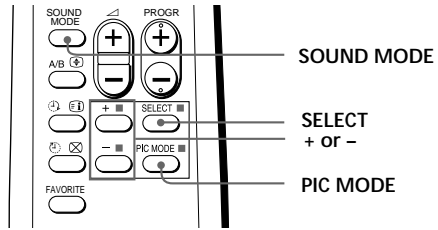


To cancel the Sleep timer

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

Customizing the picture and sound

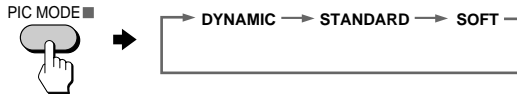
You can customize the picture and sound by selecting the picture and sound modes or by adjusting its settings.



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	receive high contrast pictures.
STANDARD	receive normal contrast pictures.
SOFT	receive mild pictures.

To select the sound mode

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



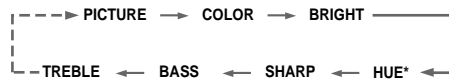
Select	To
DYNAMIC	listen to dynamic and clear sound that emphasizes the low and high sound.
DRAMA	listen to sound that emphasizes vocals and background music.
SOFT	receive soft sound.

Adjusting the picture and sound settings

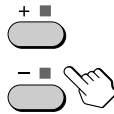
- 1 Press SELECT until the desired setting appears.



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.

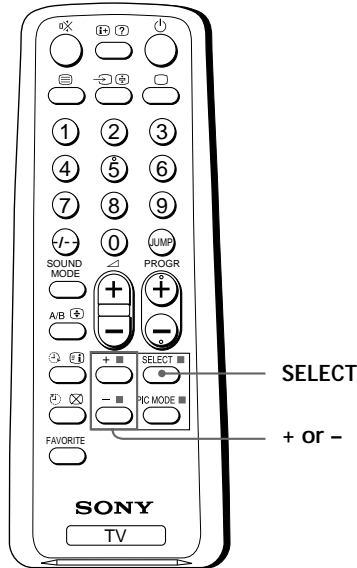
* "HUE" can be adjusted for the NTSC system only.

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  +/- on the TV to adjust the picture and sound settings.

Blocking the channels (CHILD LOCK)

You can prevent a child from watching certain channels by using the buttons on the remote control.





1 Select the channel you want to lock.

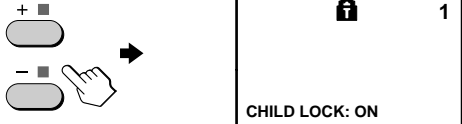
2 Press SELECT until "CHILD LOCK" appears on the screen.



3 Press + or - to select "ON".

The  symbol appears on the screen.



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



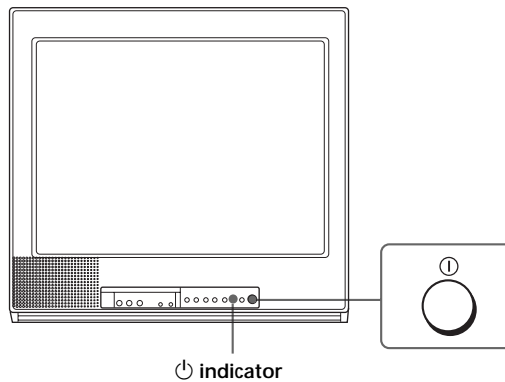
Note





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

Self-diagnosis function

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

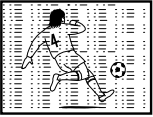






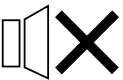
Front of TV









- 1** Check that the  indicator flashes red a number of times between 3-second intervals.
- 2** Count the number of times the  indicator flashes.
- 3** Press  (main power) to turn off your TV.
- 4** Inform your nearest Sony service center about the number of times the  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	Solutions	Possible cause
<p>Snowy picture</p> 	<ul style="list-style-type: none"> • Check the antenna cable and connection on the TV, VCR and on the wall. (page 4) • Press SELECT until "MANUAL PROGRAM" appears on the screen then preset the channel again. (page 9) 	<ul style="list-style-type: none"> • Connection is loose or the cable is damaged. • Channel presetting is inappropriate or incomplete.
<p>Noisy sound</p> 	<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. 	<ul style="list-style-type: none"> • The antenna type is inappropriate. • The antenna direction is inappropriate. • Signal transmission is low.
<p>Distorted picture</p>  <p>Noisy sound</p> 	<ul style="list-style-type: none"> • Turn off or disconnect the booster if it is in use. 	<ul style="list-style-type: none"> • Broadcast signals are too strong.
<p>Good picture</p>  <p>Noisy sound</p> 	<ul style="list-style-type: none"> • If the sound of all the channels are noisy, check the TV system (TV SYS) setting (page 10), then press AUTO PROGR to preset the channels again (page 8). • If the sound of some channels are noisy, select the channel, then select the appropriate TV system (TV SYS). (page 10) 	<ul style="list-style-type: none"> • The TV system setting or channel presetting is inappropriate or incomplete.
<p>No picture</p>  <p>No sound</p> 	<ul style="list-style-type: none"> • Check the power cord, antenna and the VCR connections. • Press ⏻ (power). • Press ⏻ (main power) on the TV to turn off the TV for about five seconds, then turn it on again. 	<ul style="list-style-type: none"> • The power cord, antenna or VCR is not connected. • The TV is not turned on.

Symptom	Solutions	Possible cause
<p>Good picture</p> 	<ul style="list-style-type: none"> Press $\triangle +$ to increase the volume level. Press \otimes to cancel the muting. 	<ul style="list-style-type: none"> The volume level is too low. The sound is muted.
<p>No sound</p> 		
<p>Dotted lines or stripes</p> 	<ul style="list-style-type: none"> Do not use a hair dryer or other electrical equipment near the TV. Adjust the antenna direction for minimum interference. Contact a Sony dealer for advice. 	<ul style="list-style-type: none"> There is local interference from cars, neon signs, hair dryers, power generators, etc.
<p>Double images or "ghosts"</p> 	<ul style="list-style-type: none"> Use a highly directional antenna. Use the fine tuning (FINE) function. (page 10) Adjust the antenna direction. Contact a Sony dealer for advice. Turn off or disconnect the booster if it is in use. 	<ul style="list-style-type: none"> Broadcast signals are reflected by nearby mountains or buildings. The antenna direction is inappropriate. Use of a booster is inappropriate.
<p>NO color</p> 	<ul style="list-style-type: none"> Press SELECT until "COLOR" appears on the screen, then press + or - to adjust the color level. (page 15) Press SELECT until "COL SYS " appears on the screen, then check the color system setting (usually set this to "AUTO"). (page 9). Adjust the antenna direction. Contact a Sony dealer for advice. 	<ul style="list-style-type: none"> The color level setting is too low. The color system setting is inappropriate. The antenna direction is inappropriate.
<p>Abnormal color patches</p> 	<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 O (main power) on the TV to turn off the TV for about five minutes, then turn it on again. 	<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.

continued

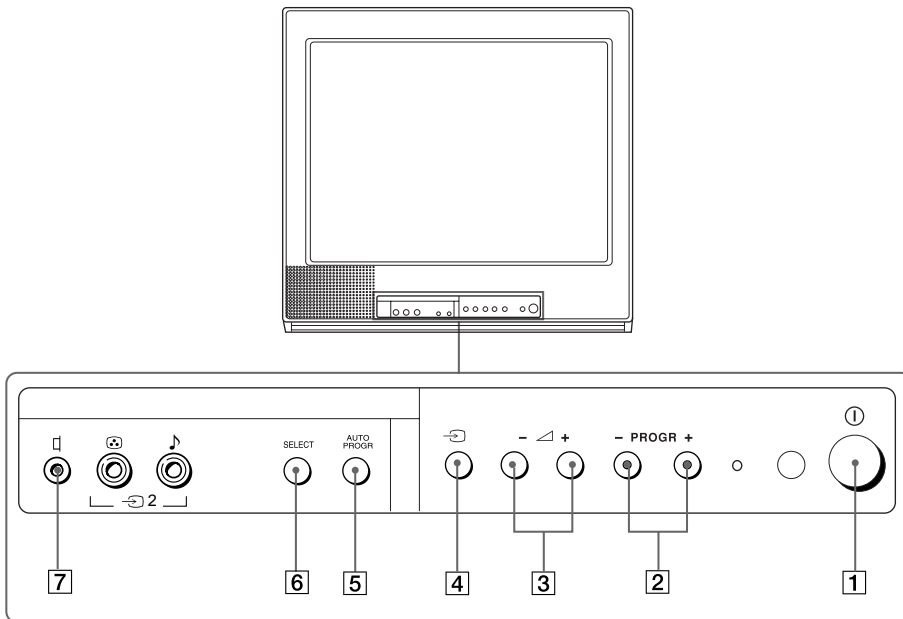
Troubleshooting (continued)

Symptom	Solutions	Possible cause
Lines moving across the TV screen.	<ul style="list-style-type: none"> Use the fine tuning (FINE) function. (page 10) 	<ul style="list-style-type: none"> There is interference from external sources, e.g., heavy machineries, nearby broadcast station.
The  indicator on your TV flashes red a number of times between 3-second intervals.	<ul style="list-style-type: none"> Contact your nearest Sony service center. (page 17) 	<ul style="list-style-type: none"> Your TV may need service.
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.

Identifying parts and controls

Refer to the pages indicated in parentheses () for details.

Front panel

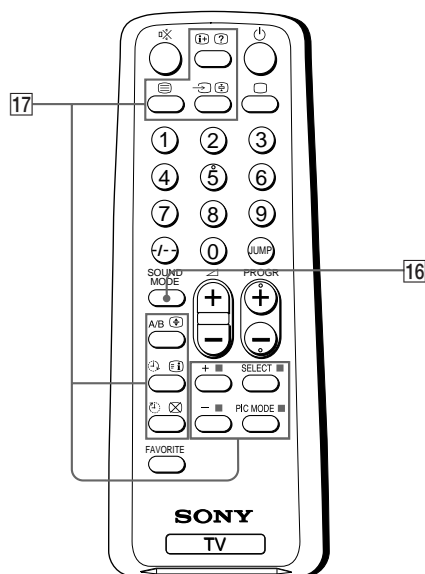
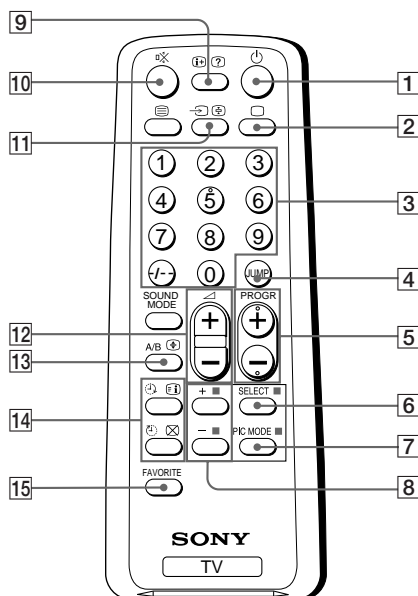


- 1 ① (main power) button (5)
- 2 PROGR +/- (program) buttons (11)
- 3 ▲ +/- (volume) buttons (11)
- 4 📺 (TV/video) button (12)
- 5 AUTO PROGR (program) button (5)
- 6 SELECT button (9)
- 7 📻 (earphone) jack

continued

Identifying parts and controls (continued)

Remote Control



- 1** ⏻ (power) button (11)
- 2** □ (TV) button (12)
- 3** Number buttons (11)
- 4** JUMP button (12)
- 5** PROGR +/- buttons (11)
- 6** SELECT button (9)
- 7** PIC MODE button (14)
- 8** + or - buttons (9)
- 9** ☺ (display) button (12)
- 10** ✖ (muting) button (12)
- 11** ⇄ (video) button (12)
- 12** ↕ +/- (volume) buttons (11)
- 13** A/B button
(not used for your model)
- 14** Timer setting buttons (13)
 - ⌚ (wake up timer)
 - ⌚ (sleep timer)
- 15** FAVORITE button
(not used for your model)

- 16** SOUND MODE button (14)
- 17** Teletext operation buttons
(not used for your model)
 - ☰ (text) ☺ (enlarge)
 - ❓ (reveal) ☹ (hold)
 - ☰ (index) ✖ (text clear)
 - (FASTEXT: red, green, yellow, blue)

Names/symbols of buttons on the remote are indicated in different colors to represent the available functions.

Label color	Button function
White	For general TV operations
Green	For Teletext operations

Specifications

	KV-PF14M70 KV-PF14M40 KV-PF14P70 KV-PF14Q70 KV-PF14Q40	KV-PF21M70 KV-PF21M40 KV-PF21P70 KV-PF21Q70 KV-PF21Q40	Note
Power requirements	110-240 V AC, 50/60 Hz		
	220-240 V AC, 50/60 Hz		Hong Kong only
Power consumption (W)	Indicated on the rear of the TV		
Television system	B/G		KV-PF21P70/ PF21Q70/PF21Q40/ PF14P70/PF14Q70/ PF14Q40
	B/G, I, D/K, M		KV-PF21M70/ PF21M40/ PF14M70/PF14M40
Color system	PAL, PAL 60, SECAM, NTSC4.43		KV-PF21Q70/ PF21Q40/PF14Q70/ PF14Q40
	PAL, PAL 60, NTSC4.43, NTSC3.58 (AV IN)		KV-PF21P70/ PF14P70
	PAL, PAL 60, SECAM, NTSC4.43, NTSC3.58		KV-PF21M70/ PF21M40/ PF14M70/PF14M40
Channel coverage	VHF : E2 to E12 UHF : E21 to E69 CATV : S01 to S03, S1 to S41		
⌚ (Antenna)	75-ohm external terminal		
Audio output	3W		
Number of terminal			
📺 (Video)	Input: 2 Output: 1 Phono jacks; 1 Vp-p, 75 ohms		
🎵 (Audio)	Input: 2 Output: 1 Phono jacks; 500 mVrms		
📞 (Earphone)	Output: 1 Minijack		
Picture tube	14 in.	21 in.	
Tube size (cm)	37	54	Measured diagonally
Screen size (cm)	34	51	Measured diagonally
Dimensions (w/h/d, mm)	375 × 346 × 416	490 × 458 × 487	
Mass (kg)	13	25	

Design and specifications are subject to change without notice.