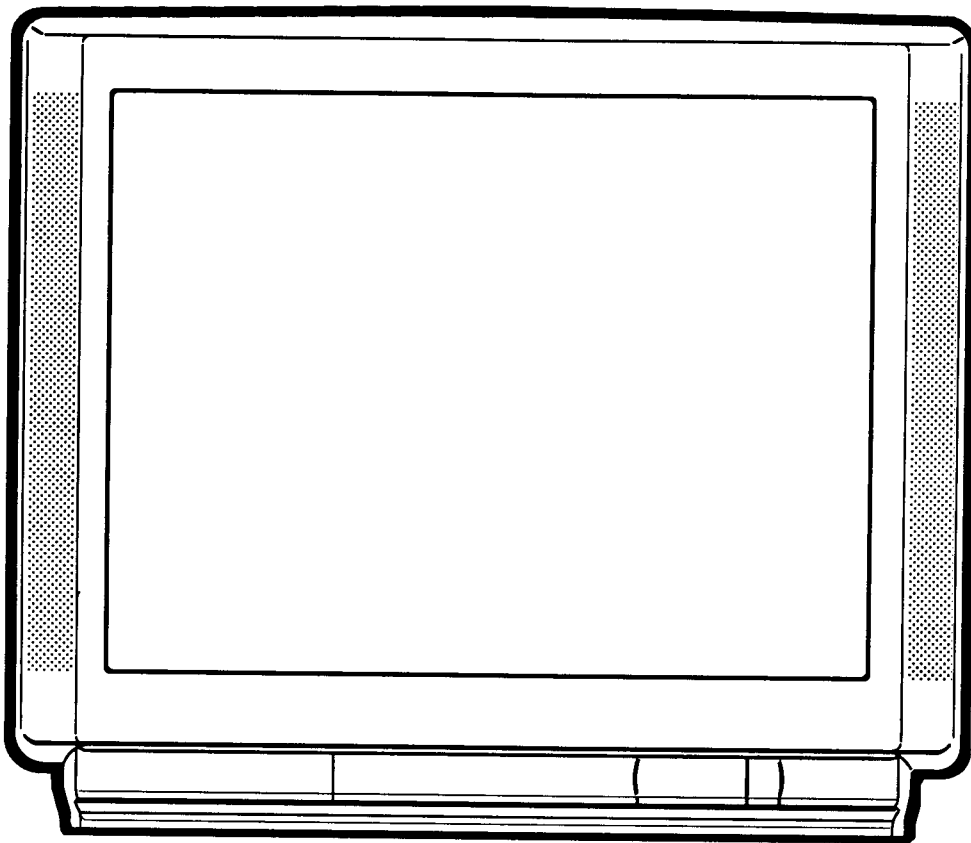


SANYO

INSTRUCTION MANUAL

C29ZK80TX

Colour Television



TELETEXT
Video Multi Terminal (PAL/NTSC/NTSC4.43)
Blue Back Function on AV mode

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Electric Mains

The receiver designed to operate on an A.C. mains supply of 220 – 240 Volts, 50Hz.

Battery Installation of the Remote Control Transmitter

- 1 Remove the battery cover by sliding.
- 2 Install two "AA" 1.5 volt batteries so that the "+" and "-" marks on the batteries match the "+" and "-" marks inside the unit.
- 3 Close the battery cover.

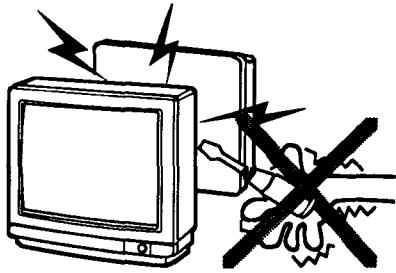
Note: Replace the batteries when the TV set is showing the following symptoms:

Operation is unsteady or erratic, sometimes the TV set does not work with transmitter.

Discharged batteries may leak and damage the unit.

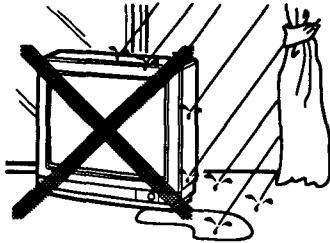
The normal life of batteries should be from nine to ten months.

Warnings and Cautions



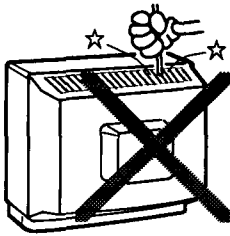
Warning

High voltages are used in the operation of this television receiver. Do not remove the cabinet back from your set. Refer servicing to qualified service personnel.



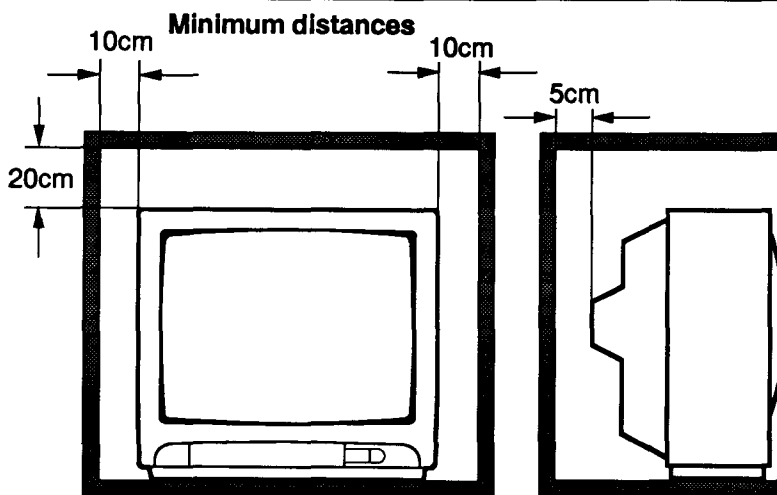
Warning

To prevent fire or electrical shock hazard, do not expose the television receiver to rain or moisture.



Warning

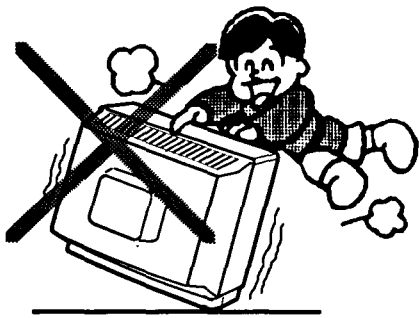
Do not drop or push objects into the television cabinet slots or openings. Never spill any kind of liquid on the television receiver.



Caution

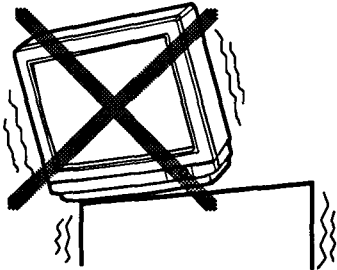
If the television is to be built into a compartment or similarly enclosed, the minimum distances must be maintained. Heat build-up can reduce the service life of your television, and can also be dangerous.

Warnings and Cautions



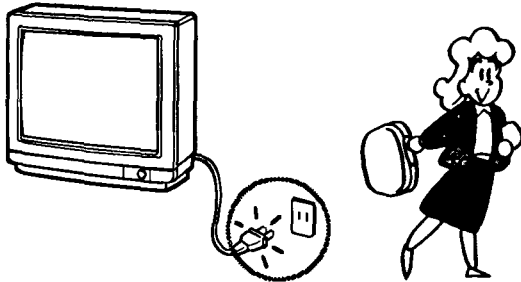
Caution

Never stand on, lean on or push suddenly the television or its stand. You should pay special attention to children. Serious injury may result if it should fall.



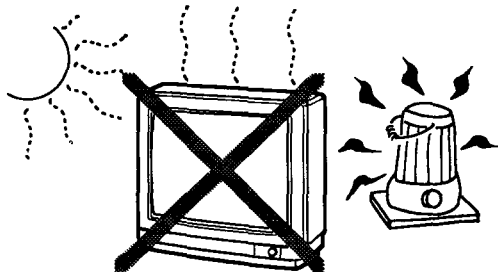
Caution

Do not place your television on an unstable cart, stand, shelf or table. Serious injury to an individual, and damage to the television, may result if it should fall.



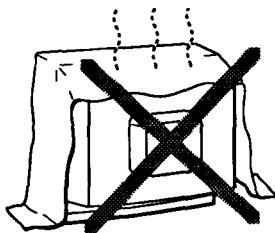
Caution

When the television receiver is not used for an extended period of time, it is advisable to disconnect the AC power cord from the AC outlet.



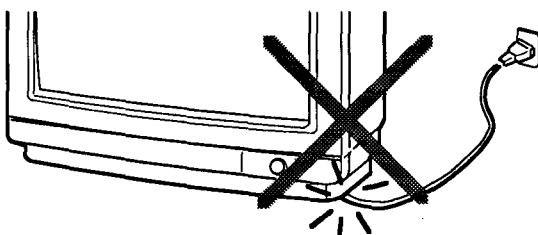
Caution

Avoid exposing the television receiver to direct sunlight and other source of heat. Do not stand the television receiver directly on other products which give off heat. E.g. video cassette players, audio amplifiers.



Caution

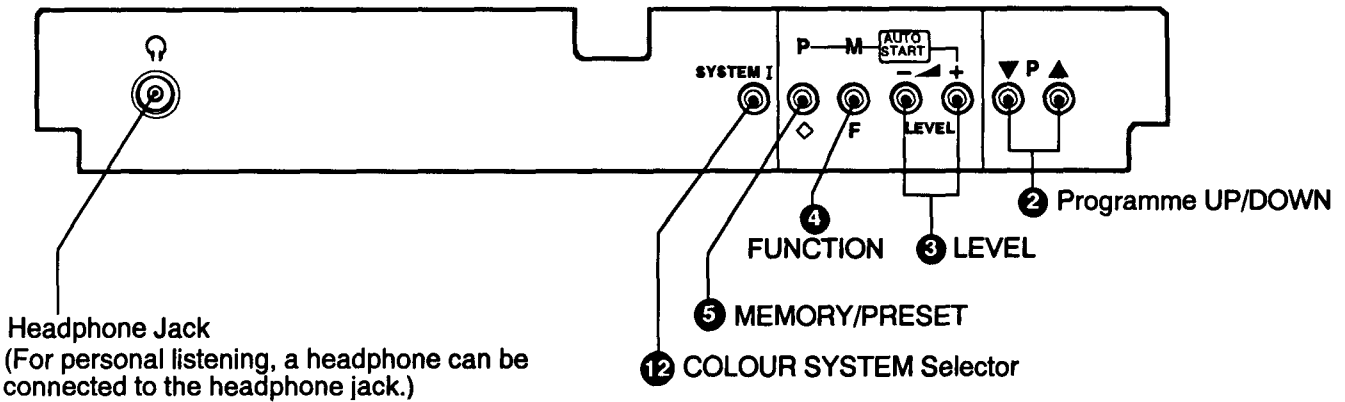
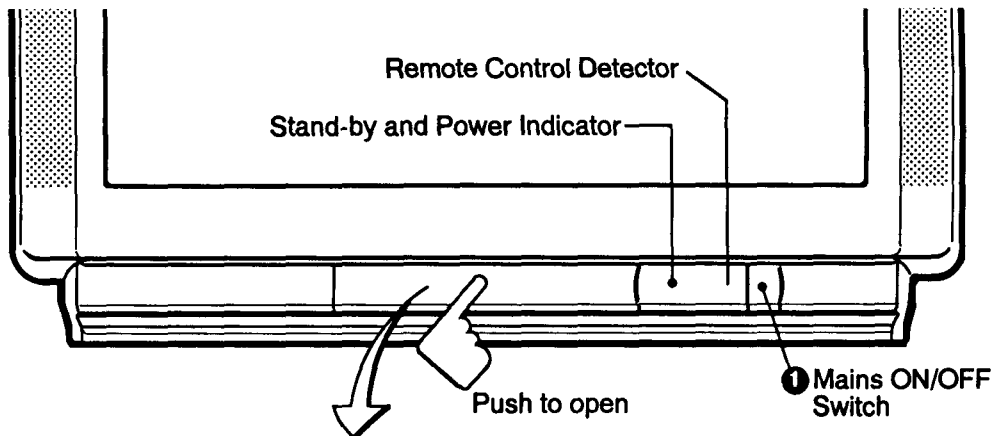
Do not block the ventilation holes in the back cover. Adequate ventilation is essential to prevent failure of electrical components.



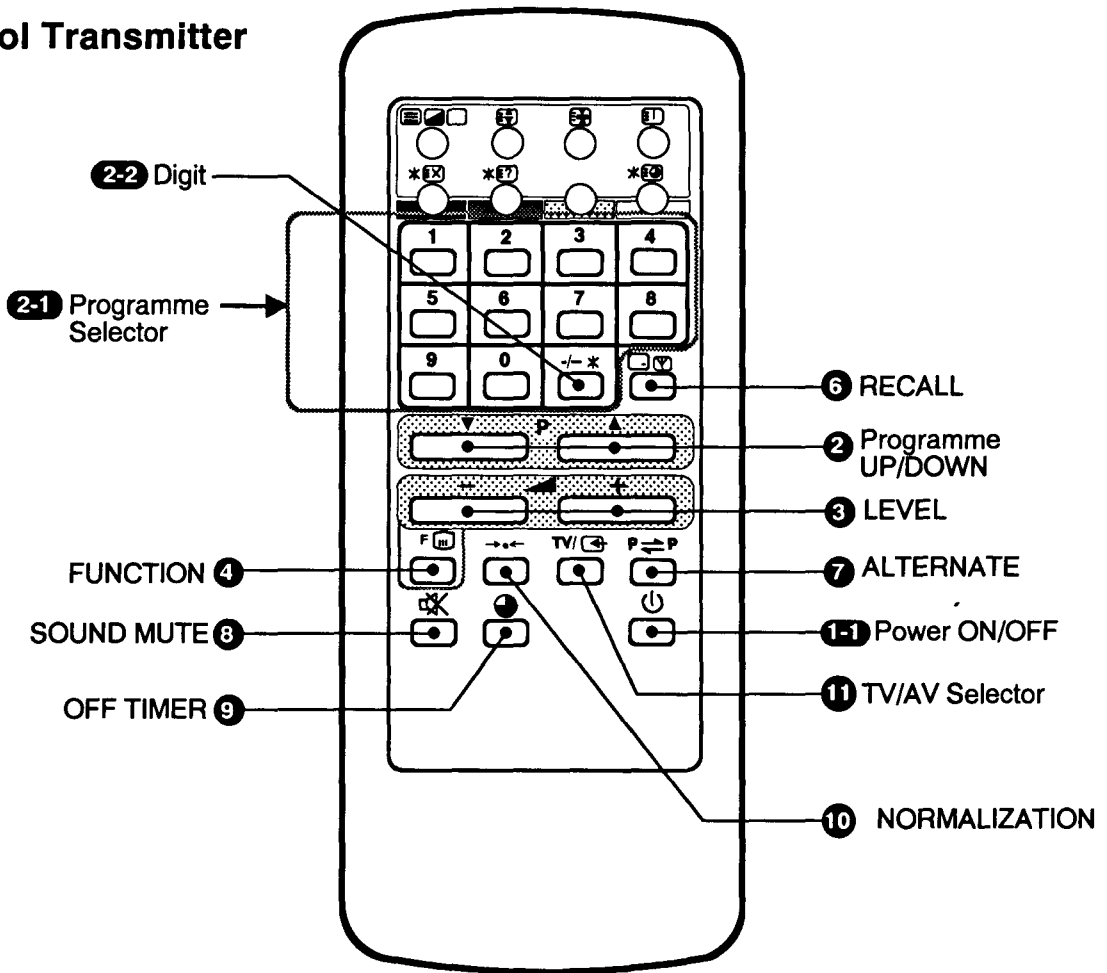
Caution

Do not squash power supply cord under the television receiver.

Controls



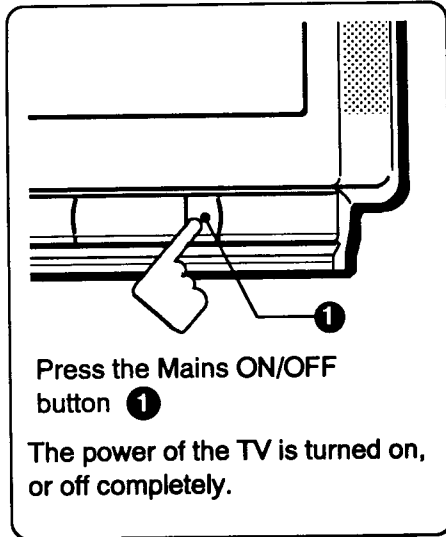
Remote Control Transmitter



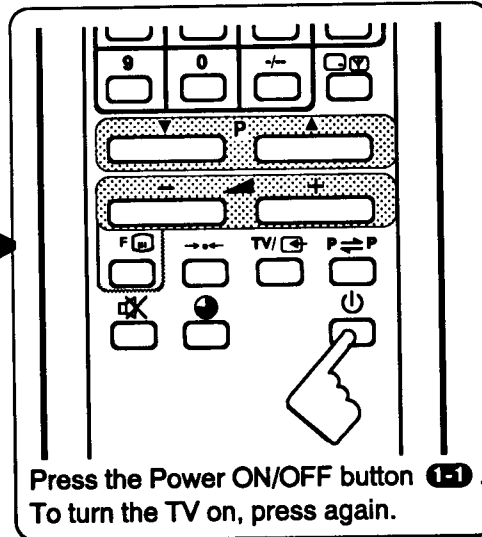
General Operation

POWER ON/OFF

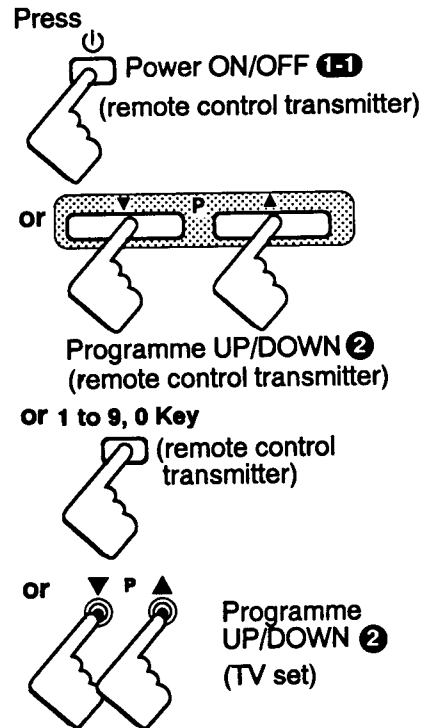
To switch the TV on or off;



To set the TV into standby mode;



To turn on the TV from standby mode;



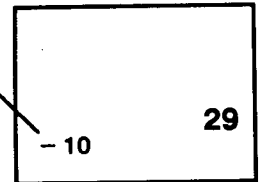
Important !

Be sure to set the Mains ON/OFF switch **1** to the off position, if the power failure occurs while viewing.

AUTO SHUT OFF

This TV set incorporates the AUTO SHUT OFF function.
Even if the TV is left on after you have gone to sleep, the TV set changes to the standby mode within 10 minutes after all broadcasts have ended.

Remaining time

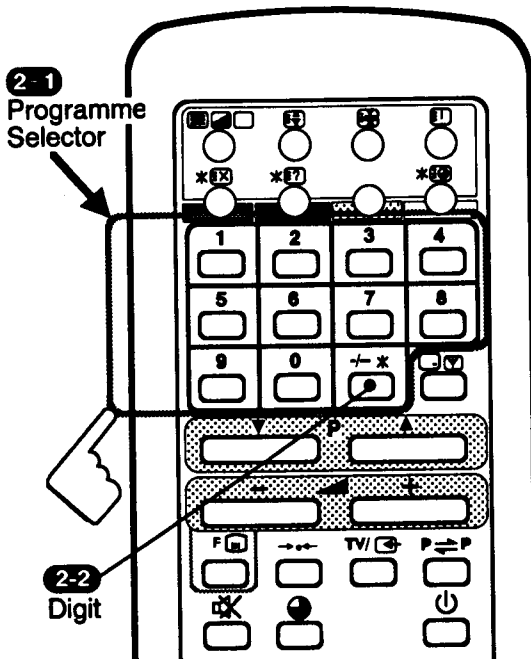


PROGRAMME SELECTION

(Direct Selection)

To select a programme directly

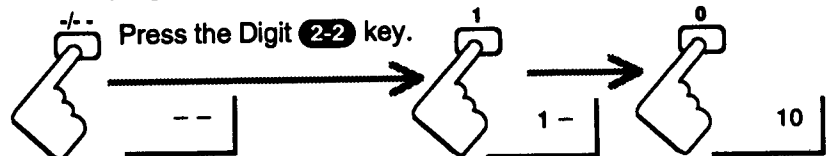
For example



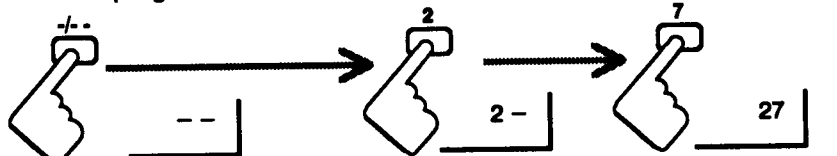
To select programme 8



To select programme 10



To select programme 27

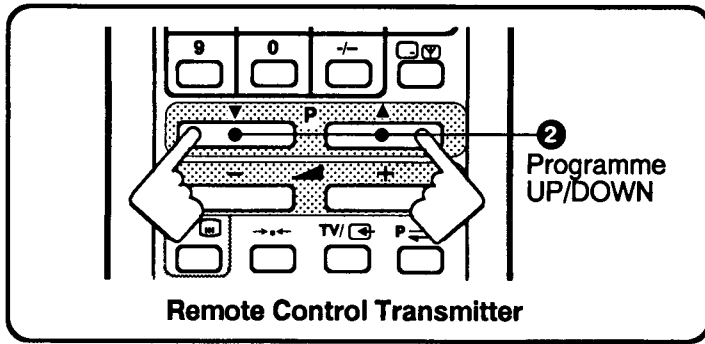


General Operation

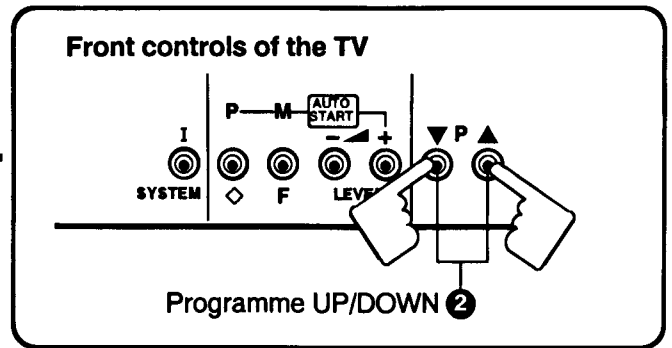
Programme Selection

(Programme UP and Down)

To select a channel

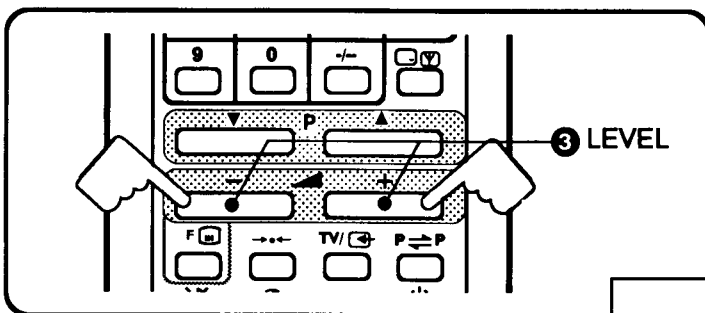


or

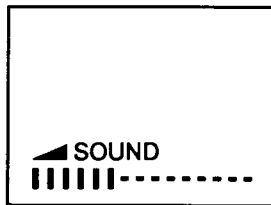
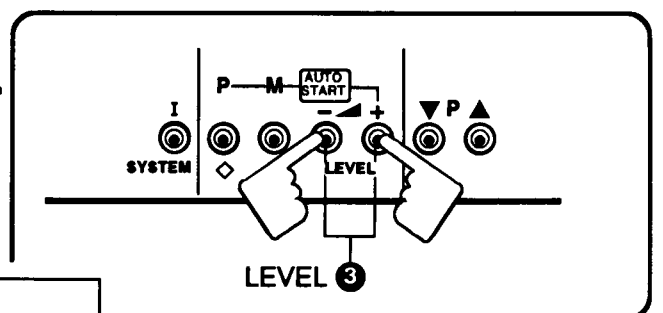


Volume Control

To adjust the sound volume

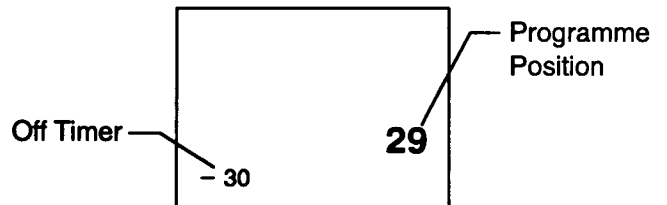
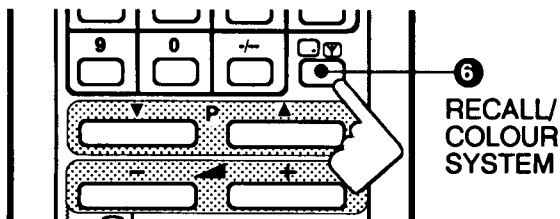


or



RECALL

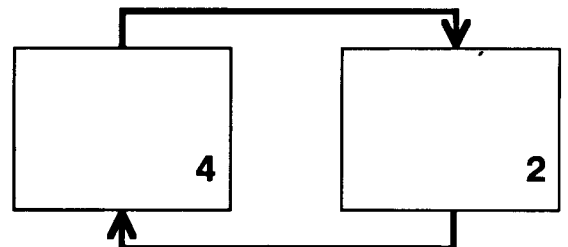
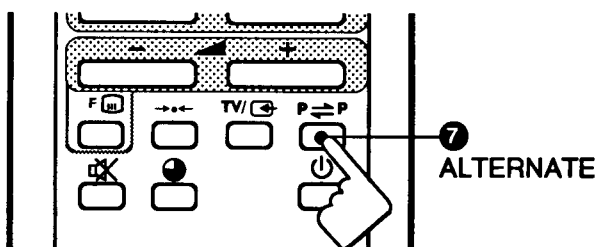
To display the on screen indications, press the RECALL / COLOUR SYSTEM button.



Screen display disappears after about 5 seconds.

ALTERNATE

Press the ALTERNATE 7 key, and the programme position will alternately select the previous position and the present position.

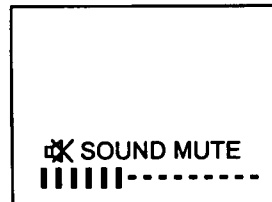
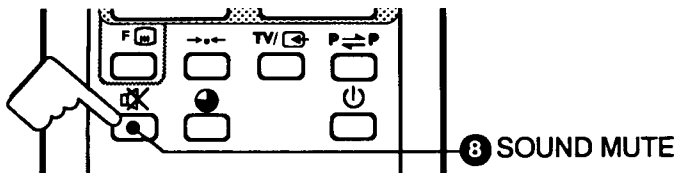


For example, now you are watching programme position "4" but you watched programme position "2" previously. If you press the ALTERNATE key, programme position "2" immediately appears.

General Operation

SOUND MUTE

Should you wish to mute the sound (e.g. While talking on the telephone), press the SOUND MUTE **8** key.

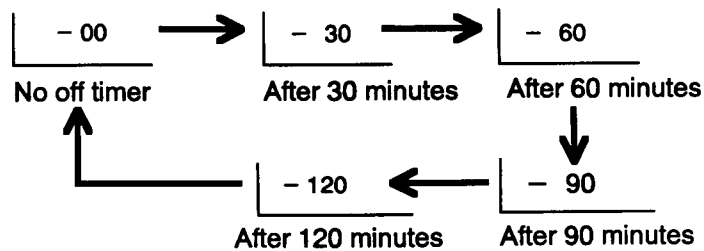
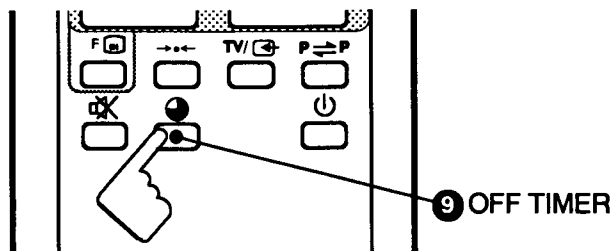


To switch the sound back on, press the SOUND MUTE key again.

OFF TIMER

The TV set will be turned off after about 30, 60, 90 or 120 minutes.

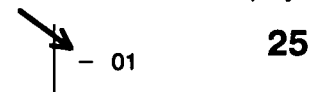
Press the OFF TIMER **9** key.



To cancel the OFF TIMER

Press the OFF TIMER key until " - 00 " appears.

Just one minute before switching off the TV, " - 01 " and channel number will be displayed on the screen.

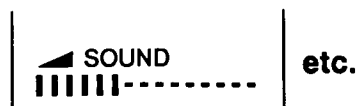


MEMORY

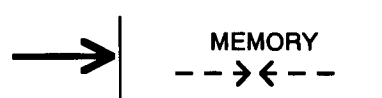
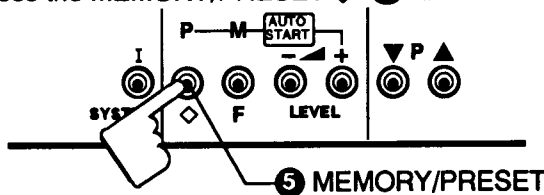
This function lets you store the settings (for colour, brightness, contrast, tint, sharpness, sound volume) in the memory for both picture and sound, and these setting levels can be recalled by pressing the NORMALIZATION **10** key of the remote control transmitter.

To store the picture and sound settings

(1) Set the picture and sound to the desired levels. →

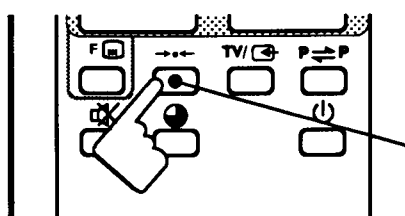


(2) Press the MEMORY/PRESET **5** button while the control function display is still visible on the screen.

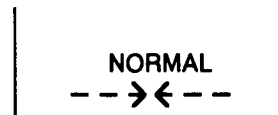


NOTE: The control settings will not be saved if the MEMORY button is pressed after the control function display has left the screen.

NORMALIZATION



Press the NORMALIZATION **10** key.

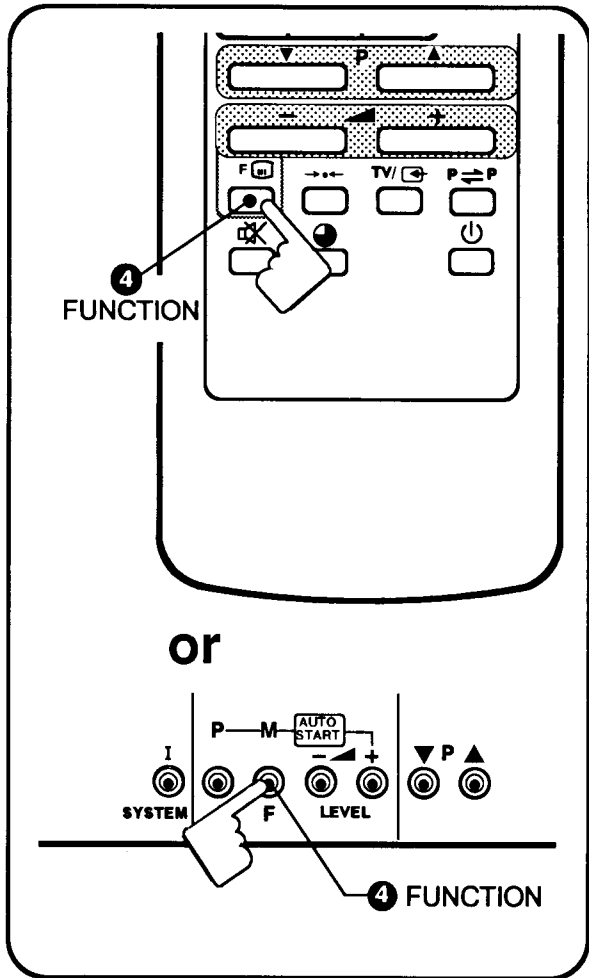


The colour, brightness, contrast, tint, sharpness and sound volume settings which you stored using the MEMORY button are recalled.

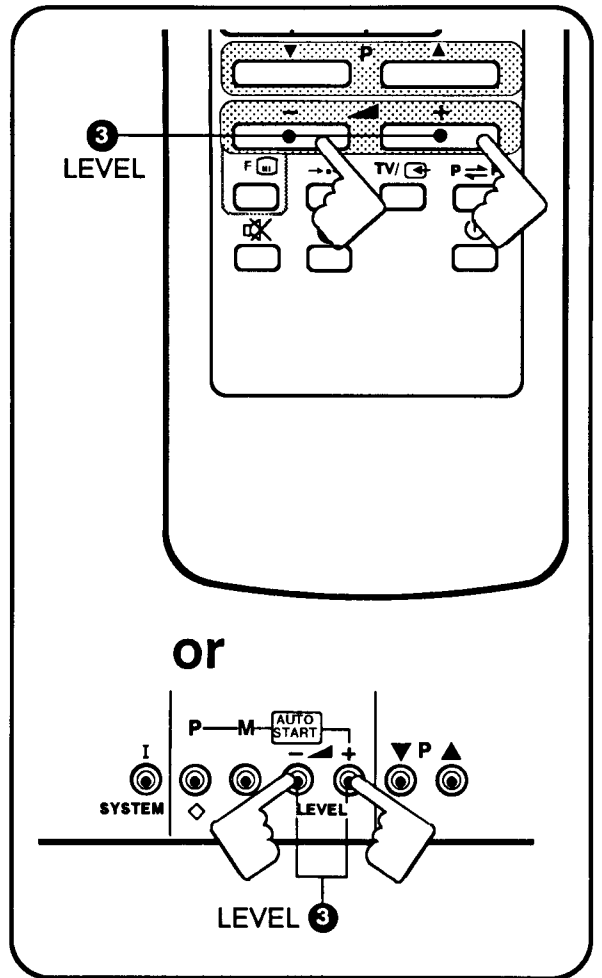
General Operation

PICTURE ADJUSTMENTS

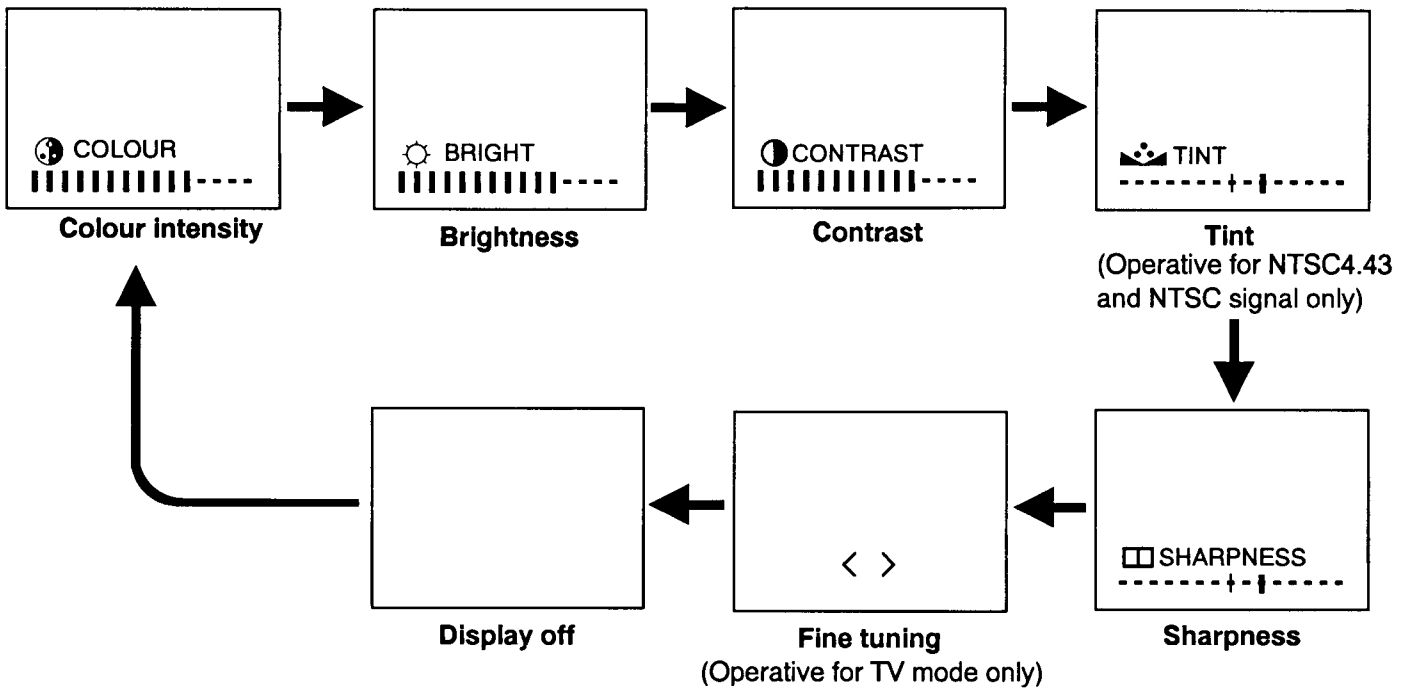
(1) Select the adjustment item using the **FUNCTION** **4** key.



(2) Adjust using the **LEVEL** **3** + and - key.



Each time the **FUNCTION** key is pressed, function choice will change as follows;



Tuning of the Channels

Up to 30 broadcast stations in your reception area can be stored in the electronic memory.

There are three ways of tuning as follows;

Automatic Tuning (the basic way)

All receivable channels are automatically tuned in and memorized in consecutive programme positions.

Semi-Auto Tuning

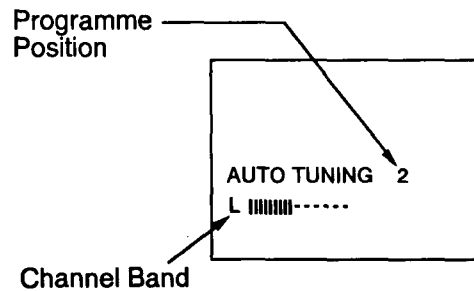
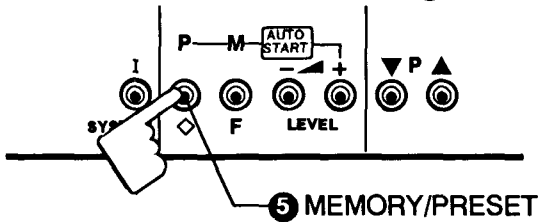
Use to preset a receivable channel in any desired programme position, e.g. the position with the same number as the channel.

Manual Tuning

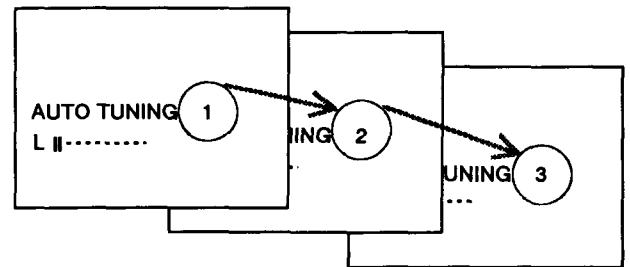
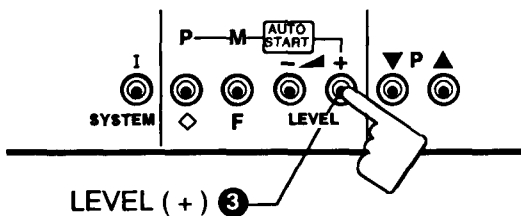
Manually tune a channel if it cannot be automatically tuned, such as when the signal is poor.

Automatic Tuning

(1) Press the MEMORY/PRESET button ⑤.



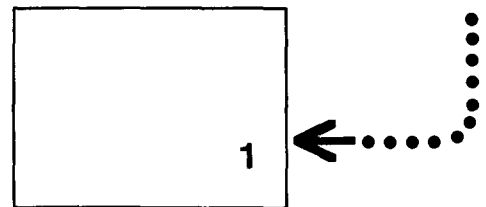
(2) Press the LEVEL (+) ③ button.



The channels are preset in consecutive positions beginning from the programme position "1".

After all available channels have been preset, the unit returns to the position "1".

Note: To cancel automatic tuning midway, press the MEMORY/PRESET ⑤ or Power ON/OFF ①-1 button.



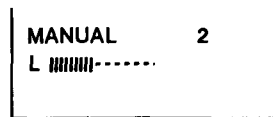
Channel Copy

Example: To copy the TV channel in the programme position 2 into the programme position 6

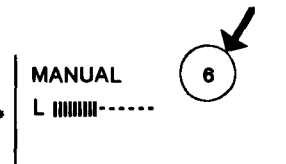
(1) Select programme position 2 using Programme selector ②-1. →



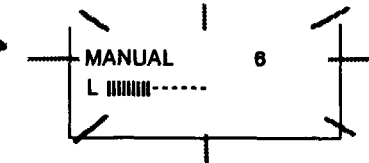
(2) Press the MEMORY/PRESET button ⑤ 3 times. →



(3) Select programme position 6 using Programme UP/DOWN ② button of the TV set. →



(4) Press FUNCTION button ④. →



(5) Press the MEMORY/PRESET button ⑤.



Tuning of the Channels

Semi-Auto Tuning & Manual Tuning

Example: To preset a channel in programme position 6

Semi-Auto Tuning

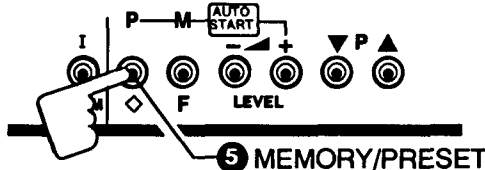
Manual Tuning

(1) Select programme position 6 using Programme selector 2-1.

6

(2) Press the MEMORY/PRESET button 5 twice.

SEMI 6
L |||||-----



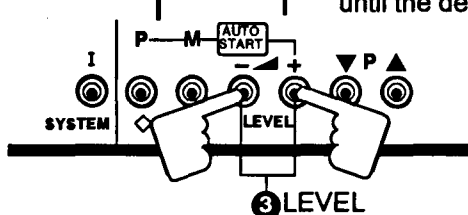
(2) Press the MEMORY/PRESET button 5 3 times.

MANUAL 6
L |||||-----

(3) Press the LEVEL(+) or (-) 3 button.

SEMI 6
L |||||-----

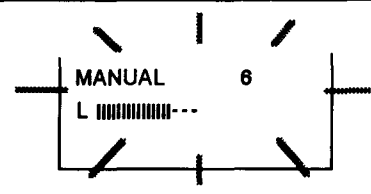
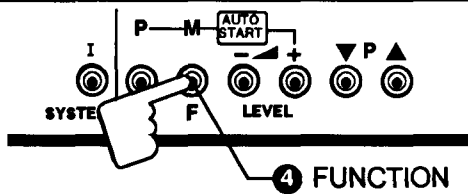
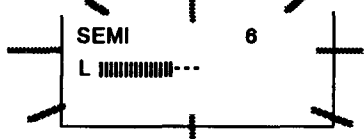
When a station is found, searching stops automatically.



(5) Press and hold the LEVEL(+) or (-) 3 button until the desired station appears.

MANUAL 6
L |||||-----

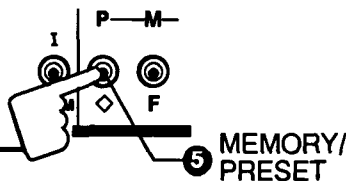
(4) Press FUNCTION button 4.



(5) Press the MEMORY/PRESET button 5 twice.

6

This completes the presetting.



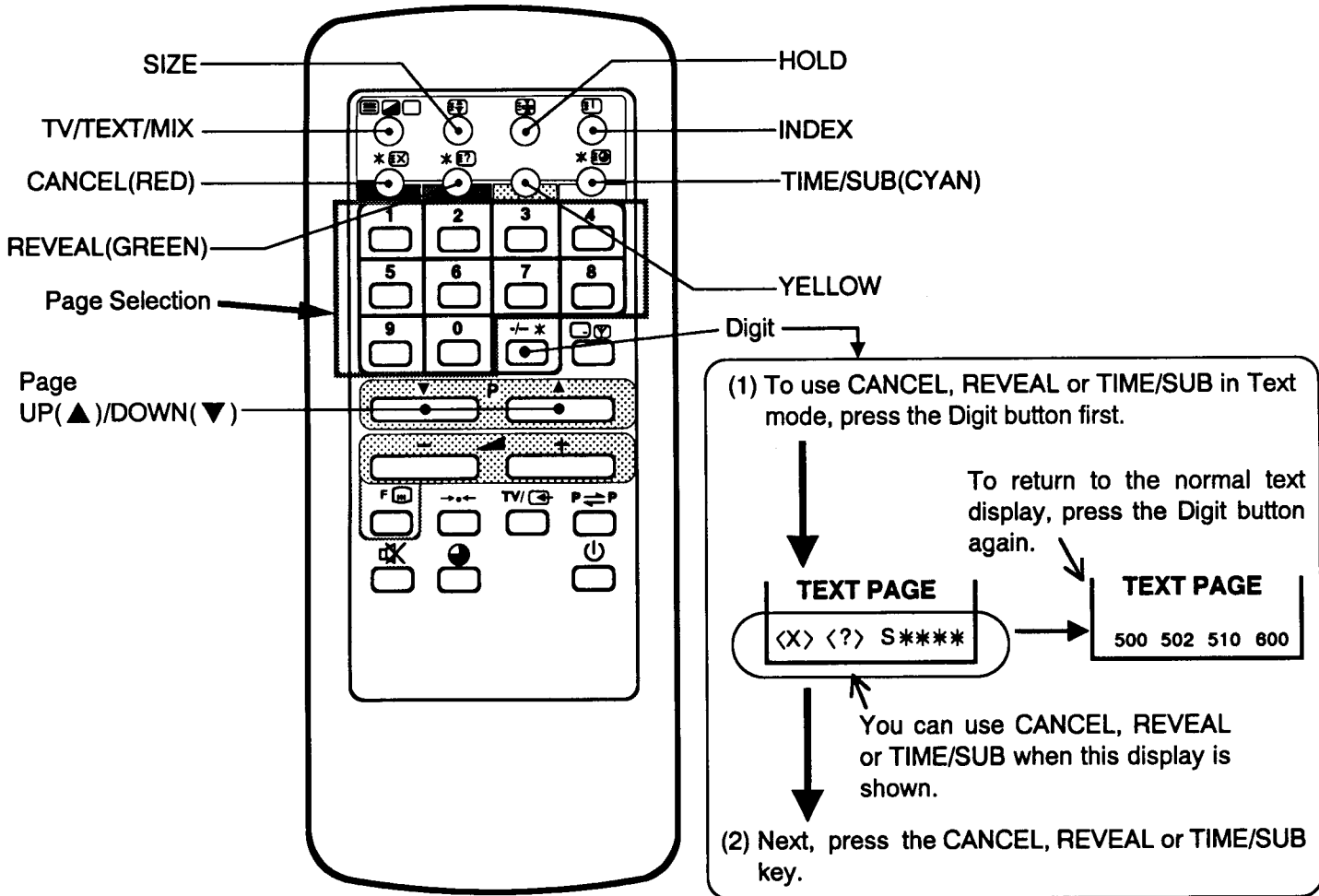
(7) Press the MEMORY/PRESET button 5.

6

This completes the presetting.

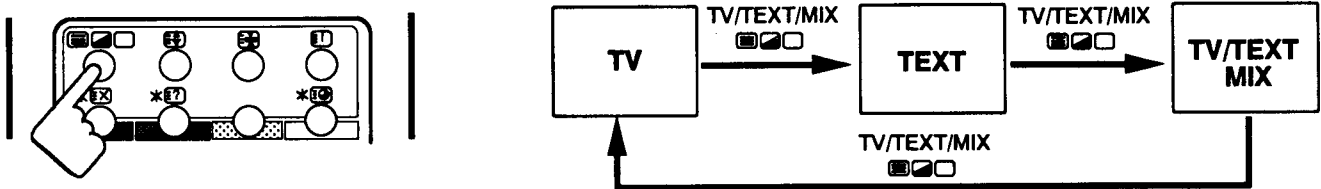
Repeat steps 1 to 5 for other desired channels.

Teletext Use



Switching to the Teletext mode

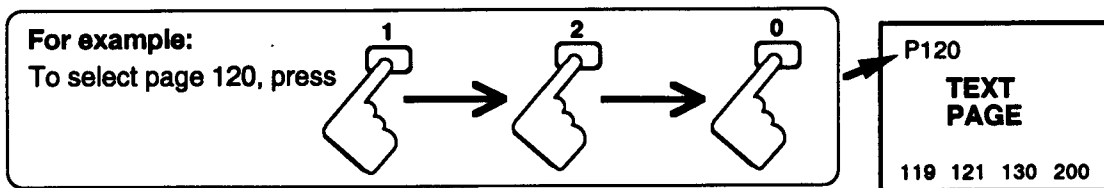
Press the TV/TEXT/MIX button, and the screen changes as follows:



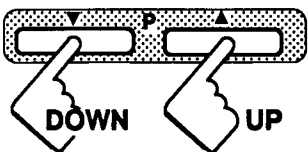
Page Selection

Direct Page Access

A Teletext page can be selected with the "0" to "9" buttons.

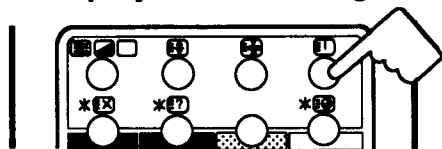


UP-DOWN Page Access



Press the Page UP (▲) button to step up to the next higher Teletext page.
Press the Page DOWN (▼) button to step down to the next lower Teletext page.

To display the Index Page



To return to the index page, press the INDEX button

Teletext Use

Sub-Coded Page Access

When a Teletext information page exceeds more than one screen of information, it may take some time for the automatic changing of the sub-pages to reach the sub-page you require.

It is possible to enter your required sub-page and continue watching the normal programme until the correct sub-page is found.

- (1) Select a text page which has sub pages.
- (2) Press the Digit button.

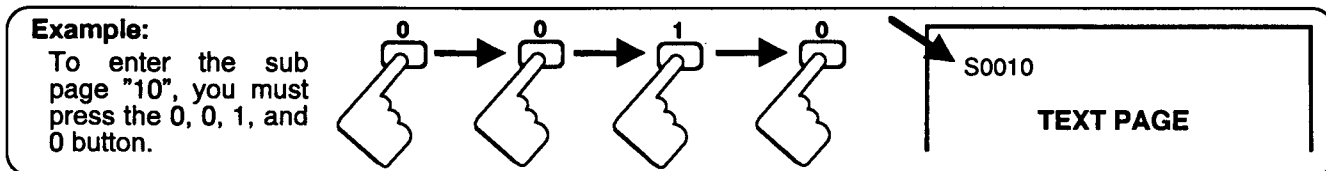


- (3) Press the TIME/SUB button.

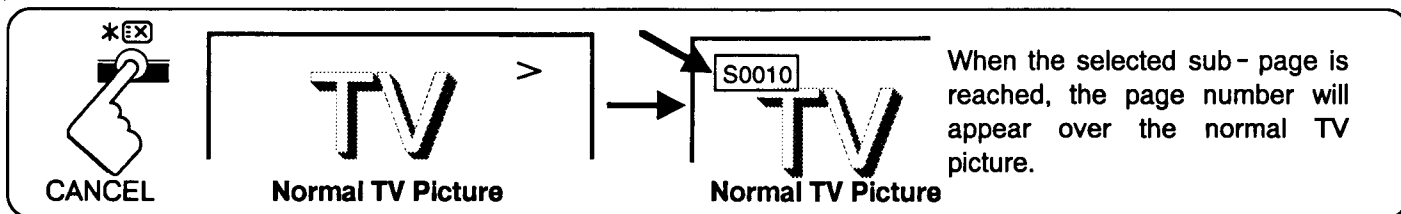


To go back to normal Teletext page entry mode, press the Digit button again.

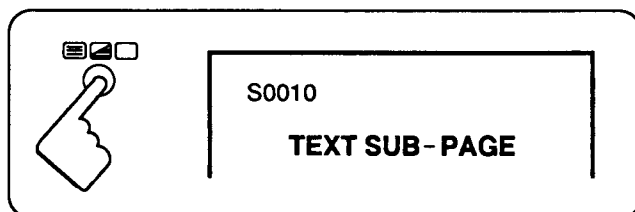
- (4) Enter the desired sub-page.



- (5) Press the CANCEL button.



- (6) Press the TV/TEXT/MIX button to display the received sub-page.



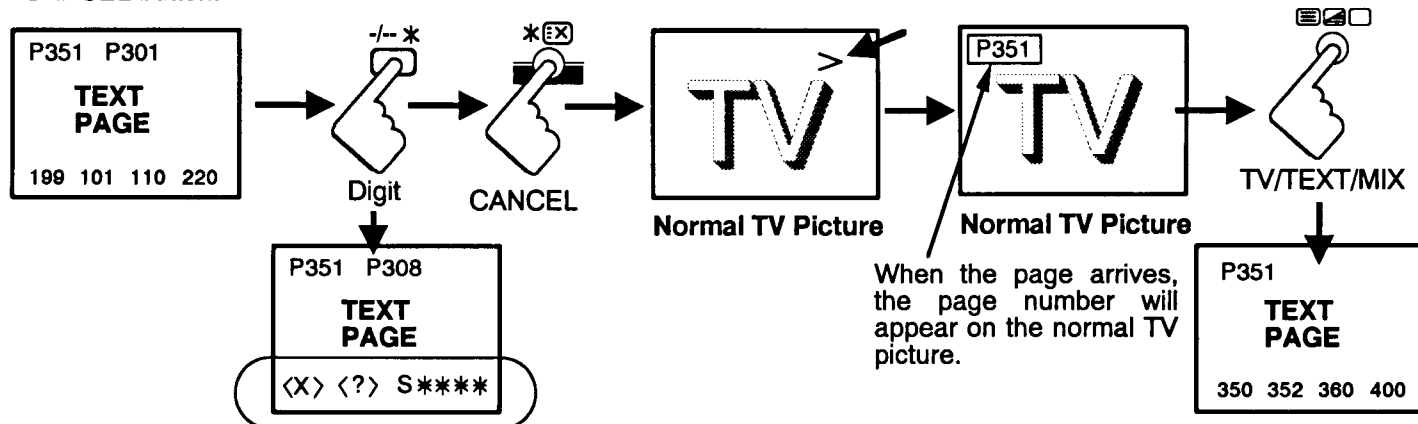
Note:

To clear the sub-coded page, enter a new page number.

It is not possible to select another television station during a sub-page access operation.

Viewing TV while searching for a page

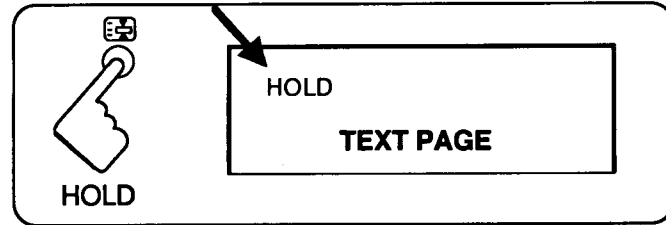
In some cases it can take some time to look for a page. In the interval you can view the TV by pressing the Digit and CANCEL button.



Teletext Use

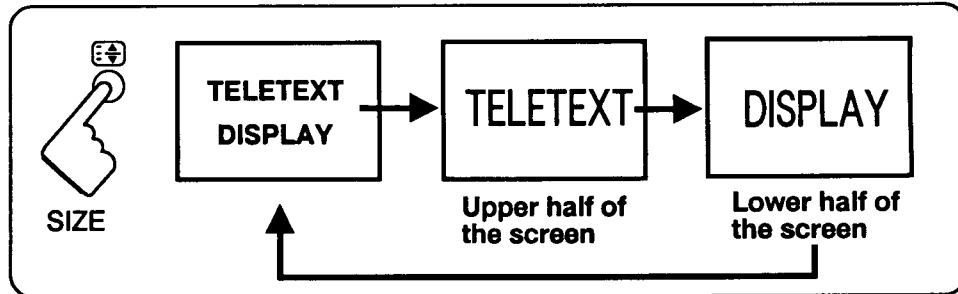
■ HOLD

When a text page has sub - pages, you can prevent the sub page being automatically changed by pressing the HOLD button. Press the HOLD button again to resume page change or enter a new page number.



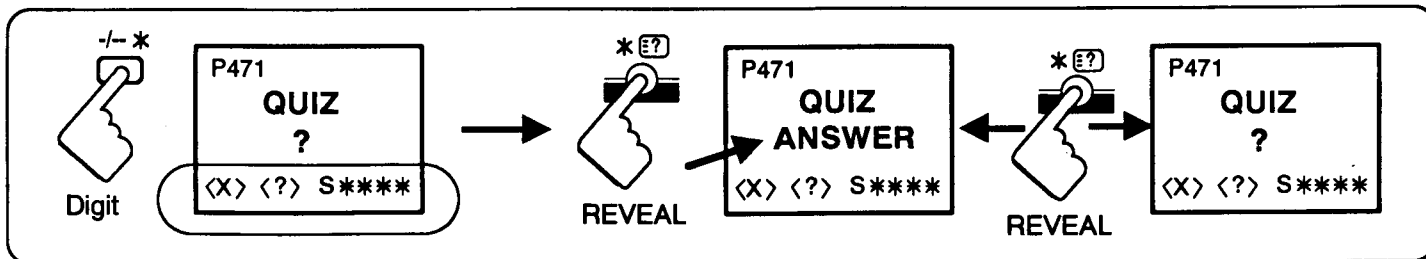
■ Double letter height

Either the top or bottom half of the display can be expanded by pressing the SIZE button.

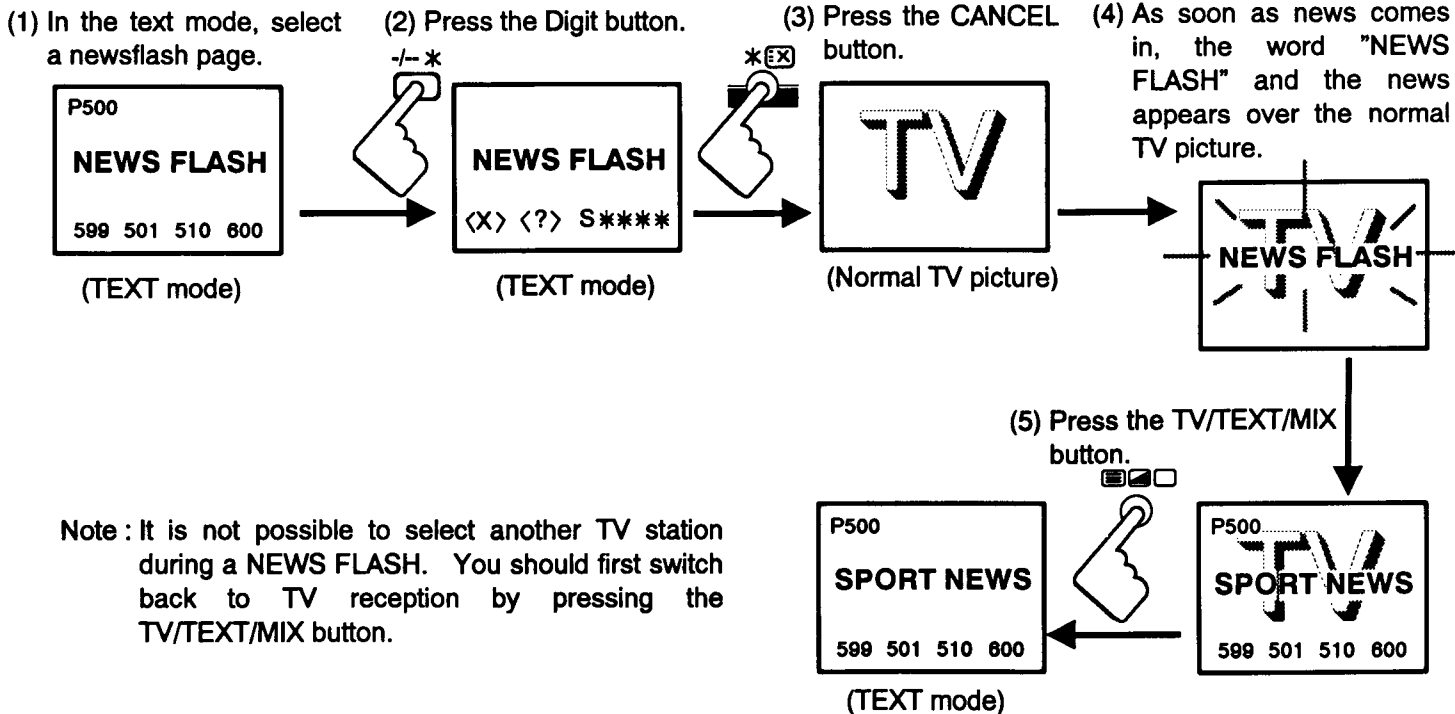


■ Displaying concealed information

Some of the text pages are in the form of a quiz or puzzle. The answer to these can be revealed by pressing the Digit and REVEAL button.



■ News flash



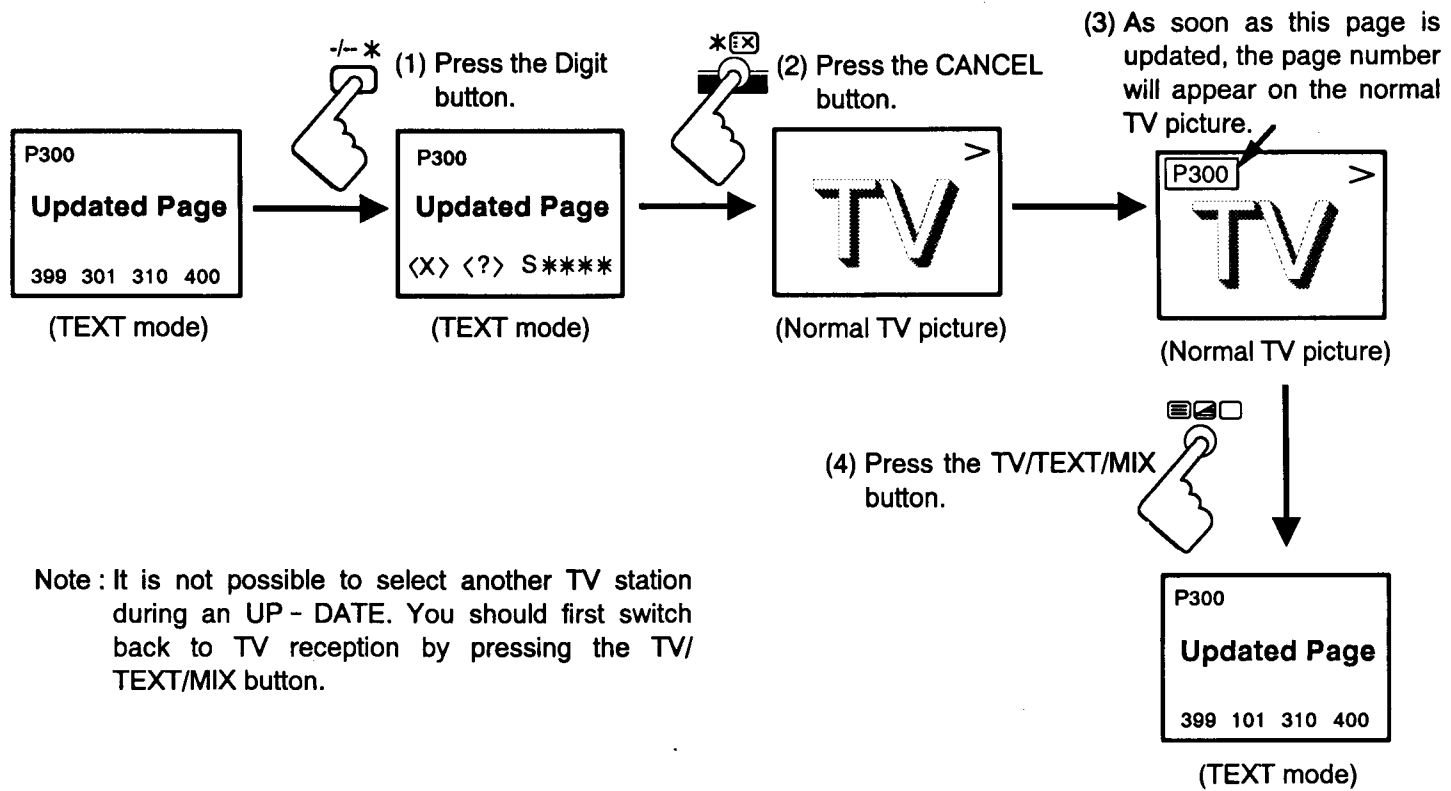
Note : It is not possible to select another TV station during a NEWS FLASH. You should first switch back to TV reception by pressing the TV/TEXT/MIX button.

Teletext Use

■ Updated Page

There are pages which are updated as events progress, such as sports results, news reports and traffic information.

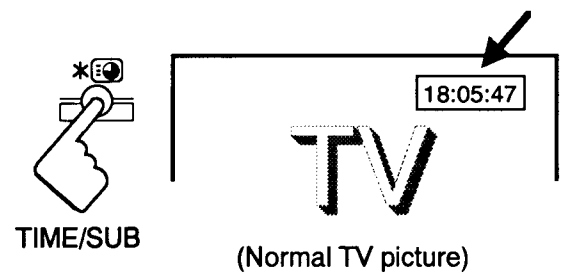
If you have selected one of the above pages from the list of contents and you want to view television but still be kept informed about the other events;



■ TIME *EⓈ

If the time is required while a programme is being viewed, press the TIME/SUB *EⓈ button.

Providing that the channel being viewed is also transmitting teletext, the time will appear at the top righthand of the screen for five seconds. The digits displayed represent hours/minutes/seconds.



Teletext Use

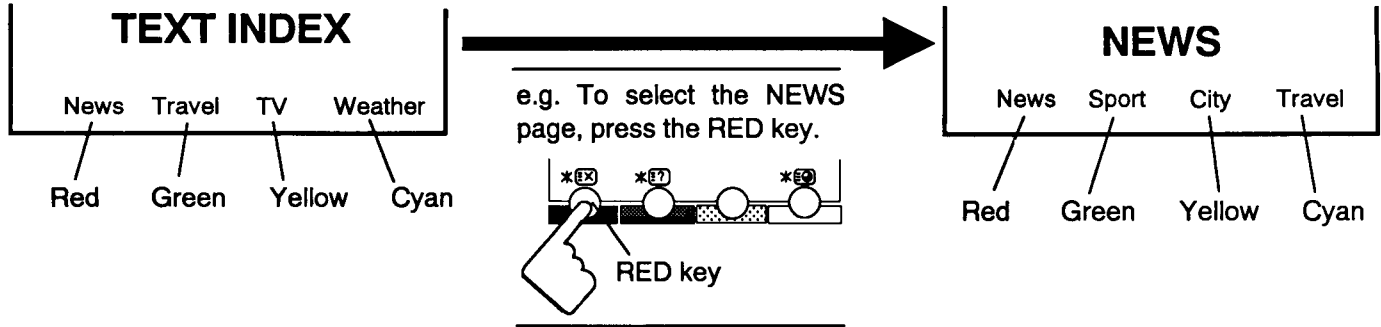
■ FLOF (FLOF: Full -level -one feature)

When a broadcasting station provides FLOF service, you can access the text pages you desire quickly and easily.

In the FLOF mode, four Fasttext topics are displayed at the bottom of the screen. These can be selected by pressing the corresponding coloured button (Red, Green, Yellow, Cyan) on the remote control transmitter. For example, when the Red button is pressed, the topic written in red is selected.

To get back to the initial index page, press the INDEX button.

(FLOF mode)



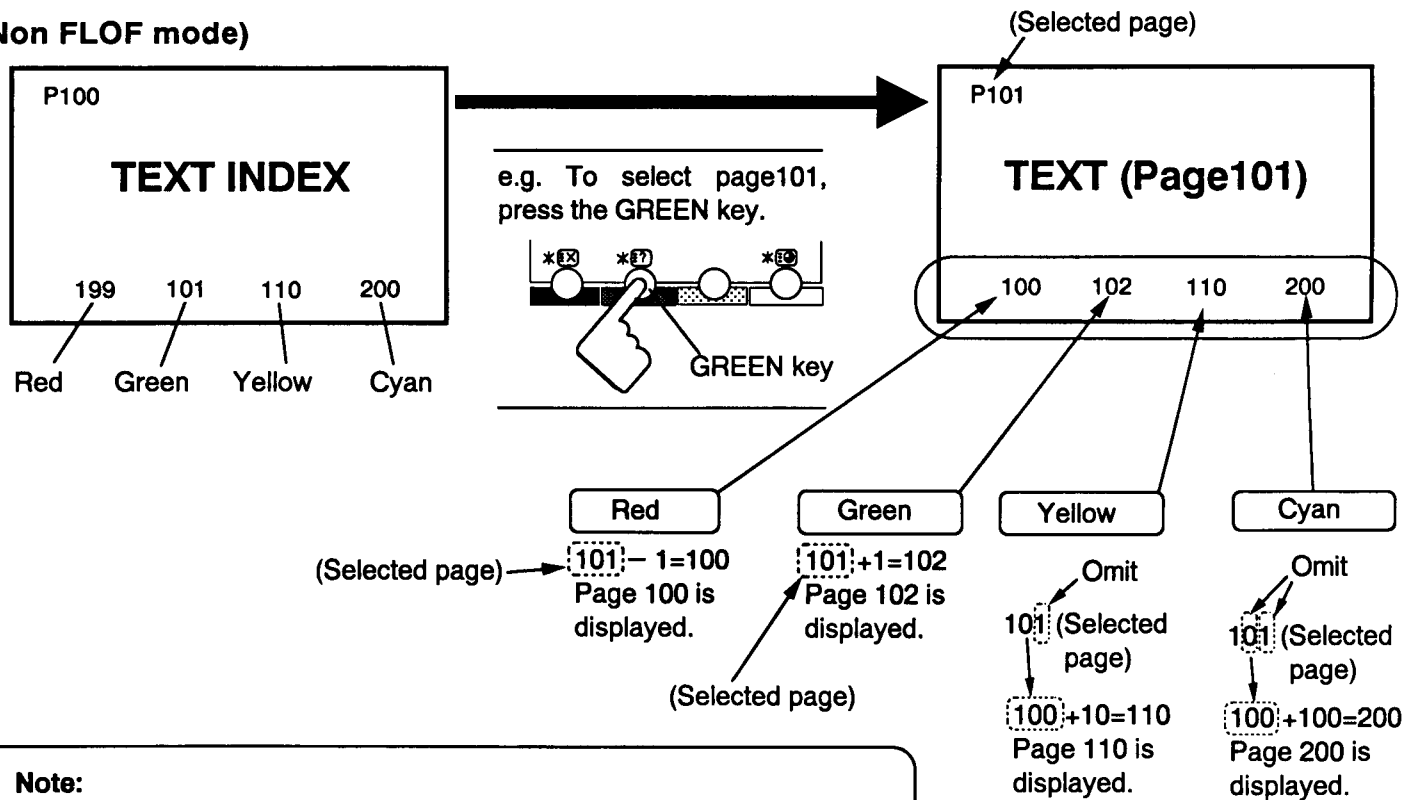
■ Non FLOF Service

When the station does not have FLOF service, the INDEX page (P100) is automatically displayed.

At the bottom of the screen, the four page numbers 199, 101, 110, 200 are also displayed. Then, when you select a random page number out of the displayed four pages by pressing a colour button, the text of that page is displayed.

Of course at any time you can select new pages by inputting new numbers.

(Non FLOF mode)



Note:

If your aerial signal is poor, the teletext reception may be poor.

Setting Restricted Programmes

To restrict programme positions that you do not want others to watch. Any positions can be restricted.

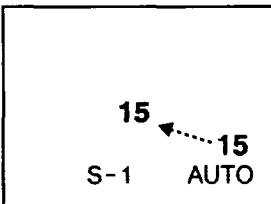
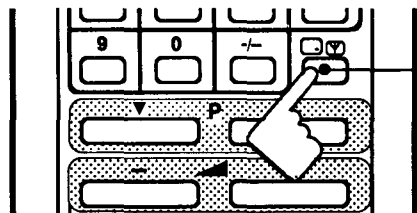
How to Set Restrictions

For example, to restrict programme position "15".

- 1 Select programme position "15".

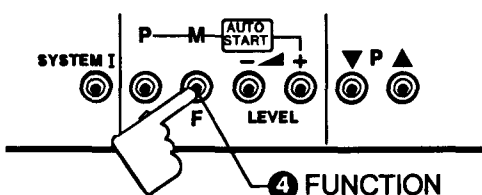


- 2 Press and hold the RECALL/COLOUR SYSTEM **6** button for more than 2 seconds.



The programme number "15" will move to the center of the screen.

- 3 Press the FUNCTION **4** button.



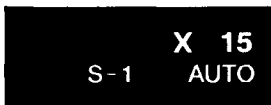
The picture will disappear, and "X 15" will be displayed on the screen.

The restricted setting is now completed.

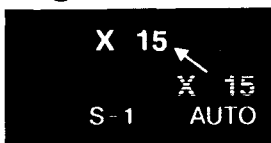
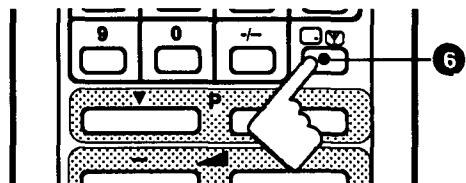
Watching a TV programme that has been restricted

To watch a TV programme that has been restricted.

- 1 Select the restricted position (position "15").



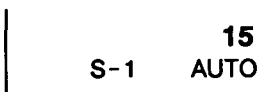
- 2 Press and hold the RECALL/COLOUR SYSTEM **6** button for more than 2 seconds.



The programme number and "X" will move to the center of the screen, and the picture will appear.

- 3 Press the RECALL/COLOUR SYSTEM **6** button for watching a TV programme.

Note: The position "15" is still in the restricted position.



Cancelling of the Restriction

To cancel the restriction

- 1 Select the restricted position.
- 2 Press and hold the RECALL/COLOUR SYSTEM **6** button for more than 2 seconds. The programme number and "X" will move to center of the screen, and the picture will appear.
- 3 Press the FUNCTION **4** button for cancelling the restricted position. The "X 15" will disappear.

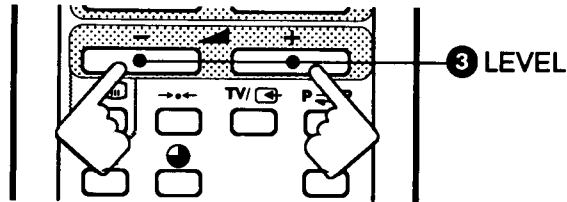
The cancelling of the restriction is complete.

Maximum volume level setting and suppression of channel tuning

It is possible to set the maximum sound volume at your preference and suppresses the channel tuning function, so that even if the MEMORY/PRESET button is pressed, the channel tuning mode (preset mode) will remain inactive.

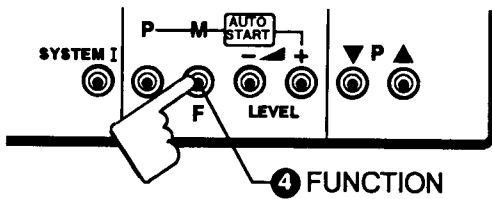
Setting procedure

- 1 Set the desirable volume level using the LEVEL ③ button.

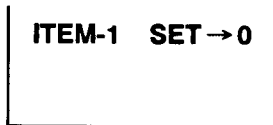
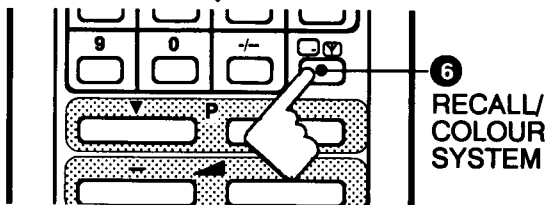


The volume level set in this procedure will be memorized as the maximum volume level.

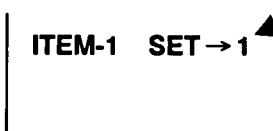
- 2 Press and hold the FUNCTION ④ button on the front control panel of the TV set, then press the RECALL/COLOUR SYSTEM ⑥ button on the remote control transmitter.



etc.



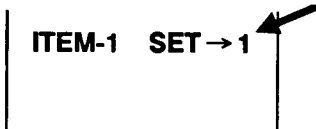
- 3 Select "1", by pressing LEVEL(+ or -) ③ button.



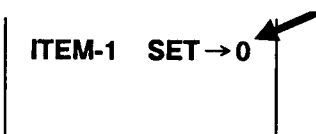
- 4 Press the RECALL/COLOUR SYSTEM ⑥ button to return to the normal TV mode.

Cancelling procedure

- 1 Press and hold the FUNCTION ④ button on the front control panel of the TV set, then press the RECALL/COLOUR SYSTEM ⑥ button on the remote control transmitter.



- 2 Select "0", by pressing LEVEL(+ or -) ③ button.



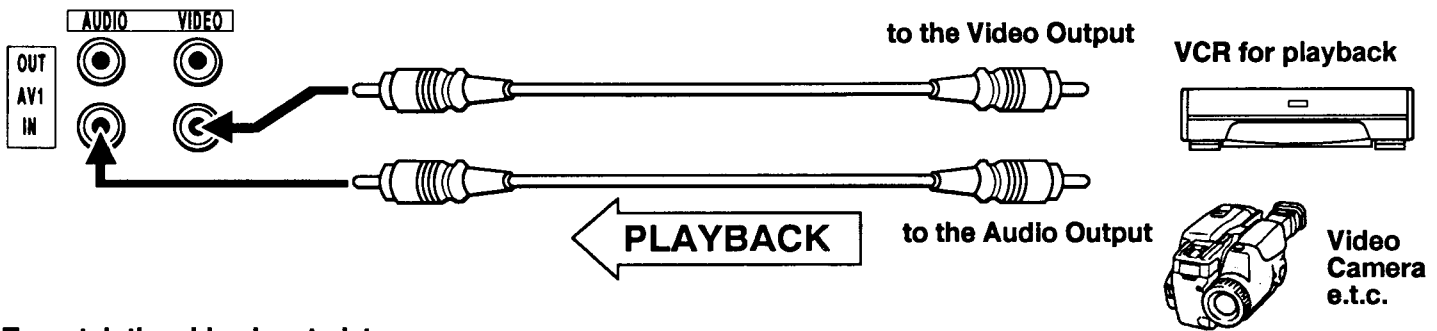
- 3 Press the RECALL/COLOUR SYSTEM ⑥ button to return to the normal TV mode.

Connecting other Equipment

Connecting to the AV Input Jacks

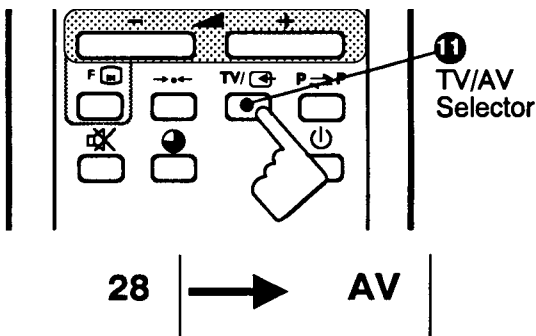
Connect the video and audio outputs of a VCR, video disc player, etc. to the input jacks of this TV set. Tapes and discs can be played back.

AV Terminal (Rear of the Set)



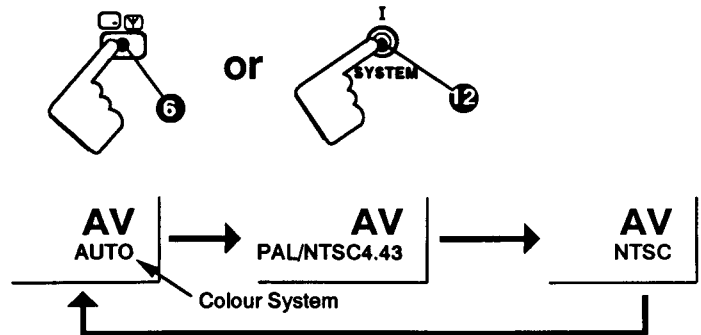
To watch the video input picture

(1) Press the TV/AV Selector ❶.



(2) Set the VCR to playback mode.

If necessary, select the colour system to match the appropriate AV equipment. Each time the COLOUR SYSTEM ❷ or ❸ button is pressed, colour system changes as follows;



Colour system setting for AV mode is automatically stored in the memory.

To return to the TV mode;

Press the TV/AV Selector again.

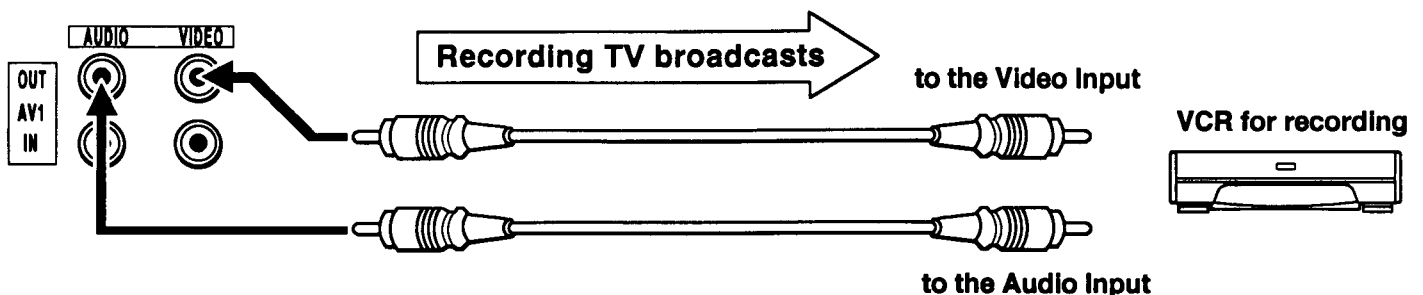
Note: Pressing either of the Programme UP/DOWN buttons on the remote control or the TV will return the TV to TV mode.

You can select a TV programme while watching a playback from a VCR

For example:

- To select the programme position "9" while watching a playback from external VCR, press "9" button of the remote control. The TV set return to the TV mode and programme "9" will be selected.
- To select the programme position "26", press "--/-" button, "2" then "6" button. The TV set return to the TV mode and programme "26" will be selected.

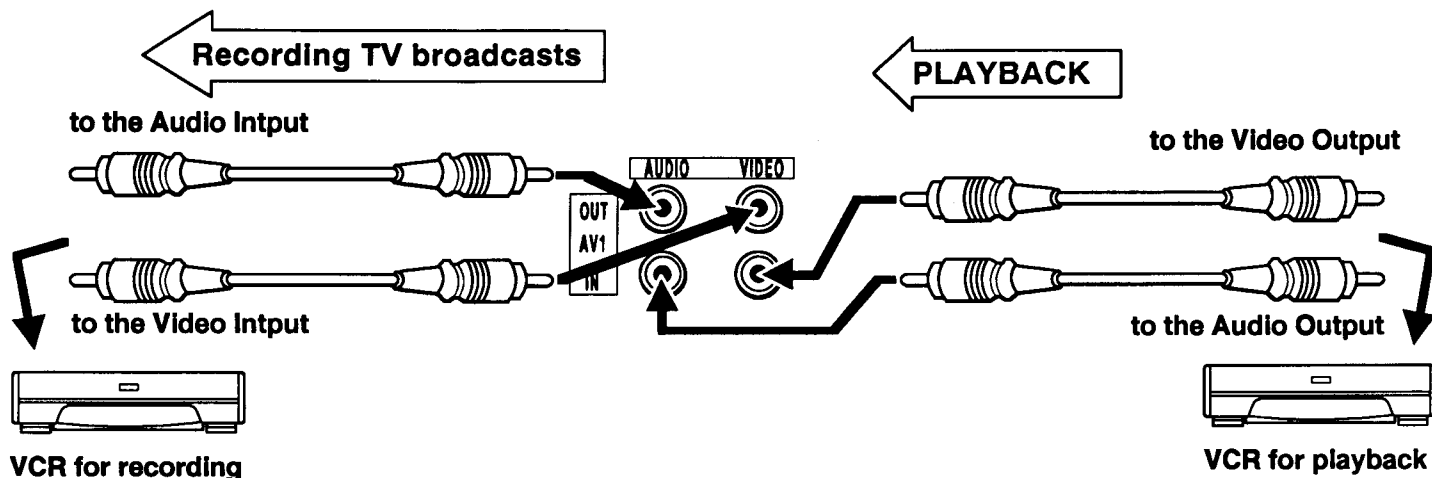
Connecting to the AV Output Jacks



The AV output terminal provides audio and video output for TV broadcasts being received. They are used to record TV broadcasts.

Connecting other Equipment

To record a TV broadcast while watching the playback from a VCR



Example: To record a TV broadcast of the programme position " 7 " while watching the playback from a VCR,

- (1) Select the programme position "7".



- (2) Set the TV receiver to the AV mode to watch the playback from a VCR.



- (3) Set the VCR for recording to the recording mode.

AV Connection to the Aerial Socket

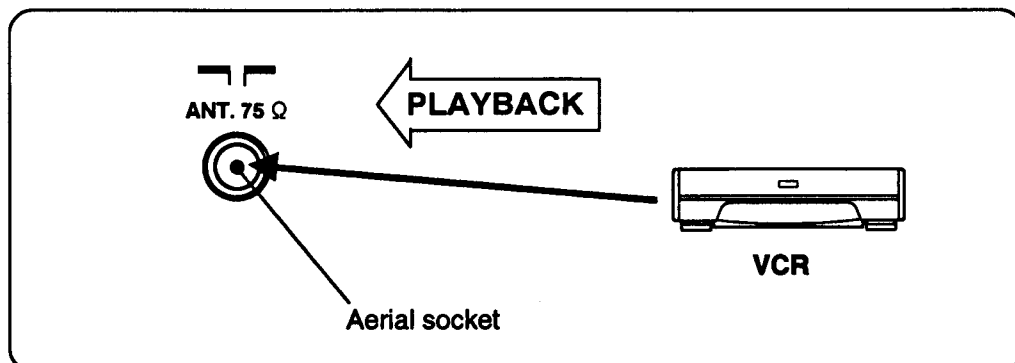
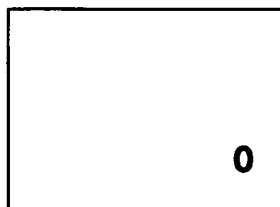
The AV apparatus can also be connected to the aerial socket of your TV receiver.

Presetting to watch the video input

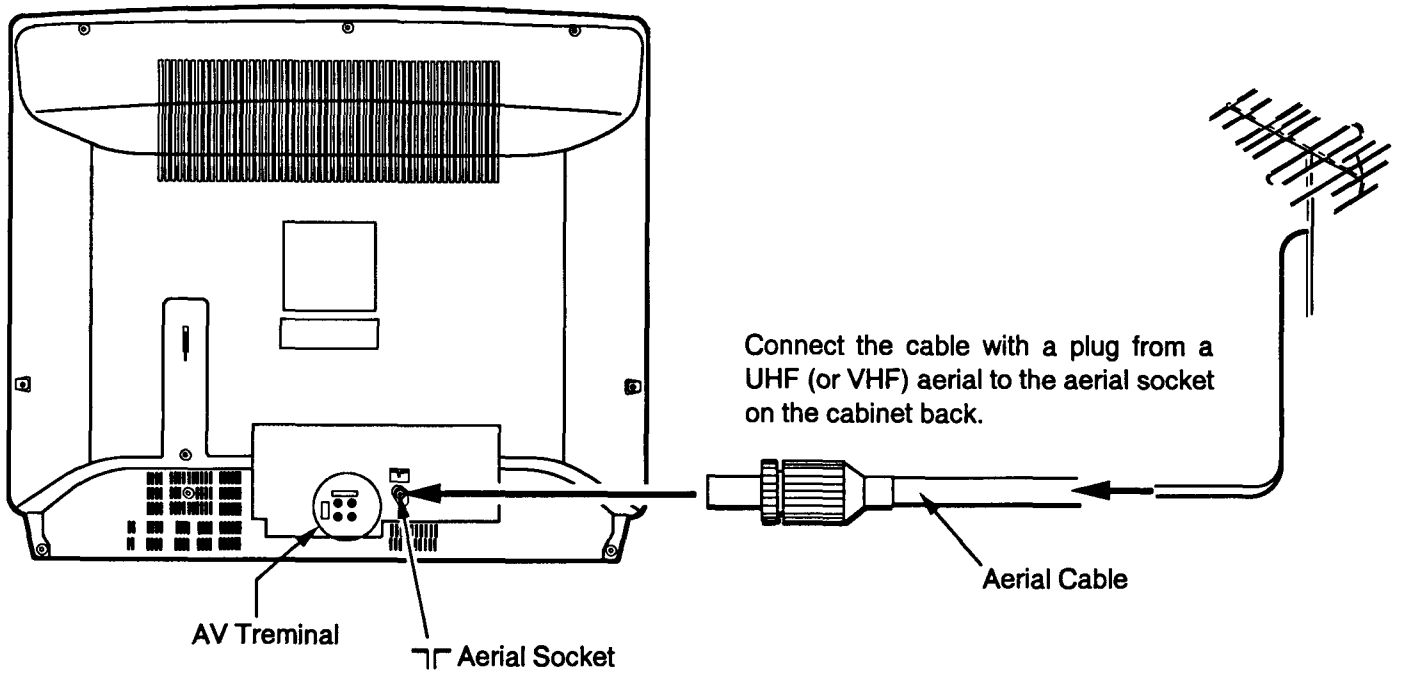
- (1) Play back the VCR.
- (2) Tune a channel in programme position 0 (See Semi-auto tuning & Manual tuning on page 11).

Watching the video input

Select programme position 0.



Aerial Connection



For all aerial circuit problems please consult your local dealer.

Specifications

Power Source AC 220-240 Volts, 50Hz.

Receiving System PAL - B/G
(AV Input: PAL/NTSC/NTSC4.43)

Channel Coverage VHF: 1-11
UHF: 21-69

Aerial Input Impedance 75 Ω

Speakers 6cm \times 12cm \times 2 speakers

Audio Output (Music) 5.0 W

Ext. Terminals AV Inputs:

Video input (Phono jack) x 1 (1.0Vp-p, Impedance 75 Ω)

Audio input (Phono jack) x 1 (436mVrms, Impedance more than 40K Ω)

AV Outputs:

Video output (Phono jack) x 1 (1.0Vp-p, Impedance 75 Ω)

Audio output (Phono jack) x 1 (436mVrms, Impedance less than 600 Ω)

Headphone jack (Mini jack) x 1

Dimensions 700 (W) x 601.5 (H) x 495 (D)mm

Weight approx. 39.1Kg

Specifications subject to change without notice.

A series of horizontal dashed lines for writing.

SANYO

SANYO ELECTRIC Co., Ltd

Part No. 1AA6P1P1018-- E8DKZ (AA1-A)