INSTRUCTION MANUAL

Colour Television

C20PE70
C20ZE70
C21PM40
C21ZM40
C21PM45
C21ZM45

SANYO
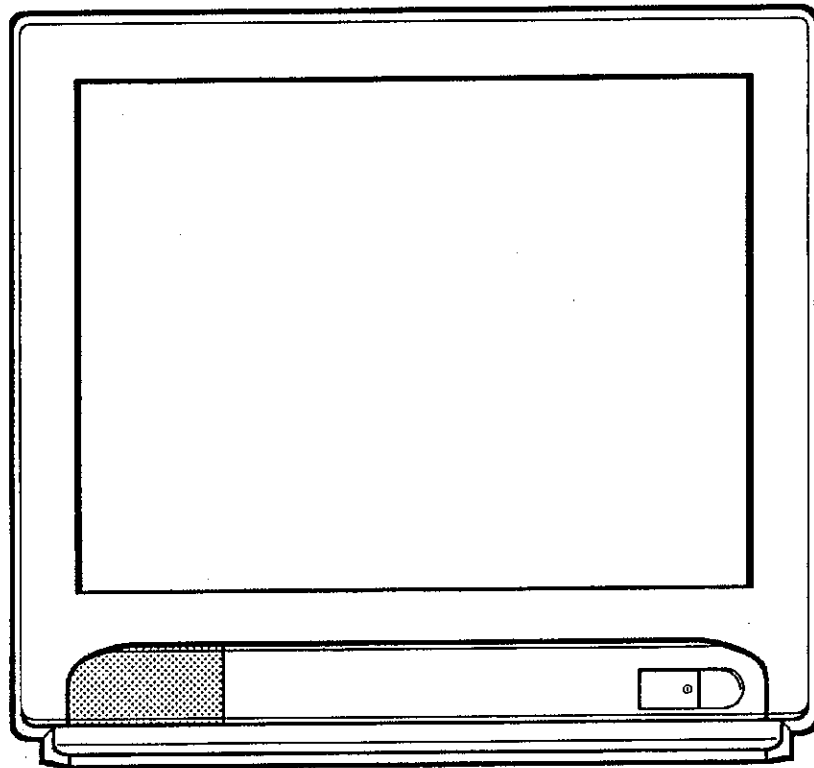
Remote Control
Special Function
AV Input and Output Terminals

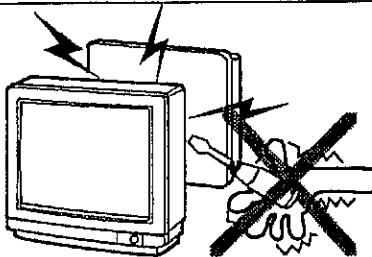Model C21PM45, C21ZM45 — Equipped with the Teletext Decoder.

Contents

Electric Mains

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

Aerial Connection

Telescopic aerial
(Model C20PE70 only)

Matching box

To the aerial socket

Telescopic aerial feeder

Connect the cable with a plug from a UHF (or VHF) aerial to the aerial socket on the cabinet back.

Aerial cable

For all aerial circuit problems please consult your local dealer.
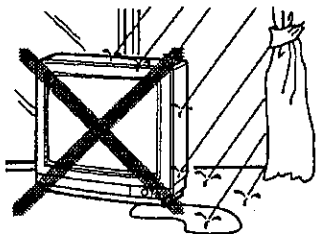
⊓⌐aerial socket
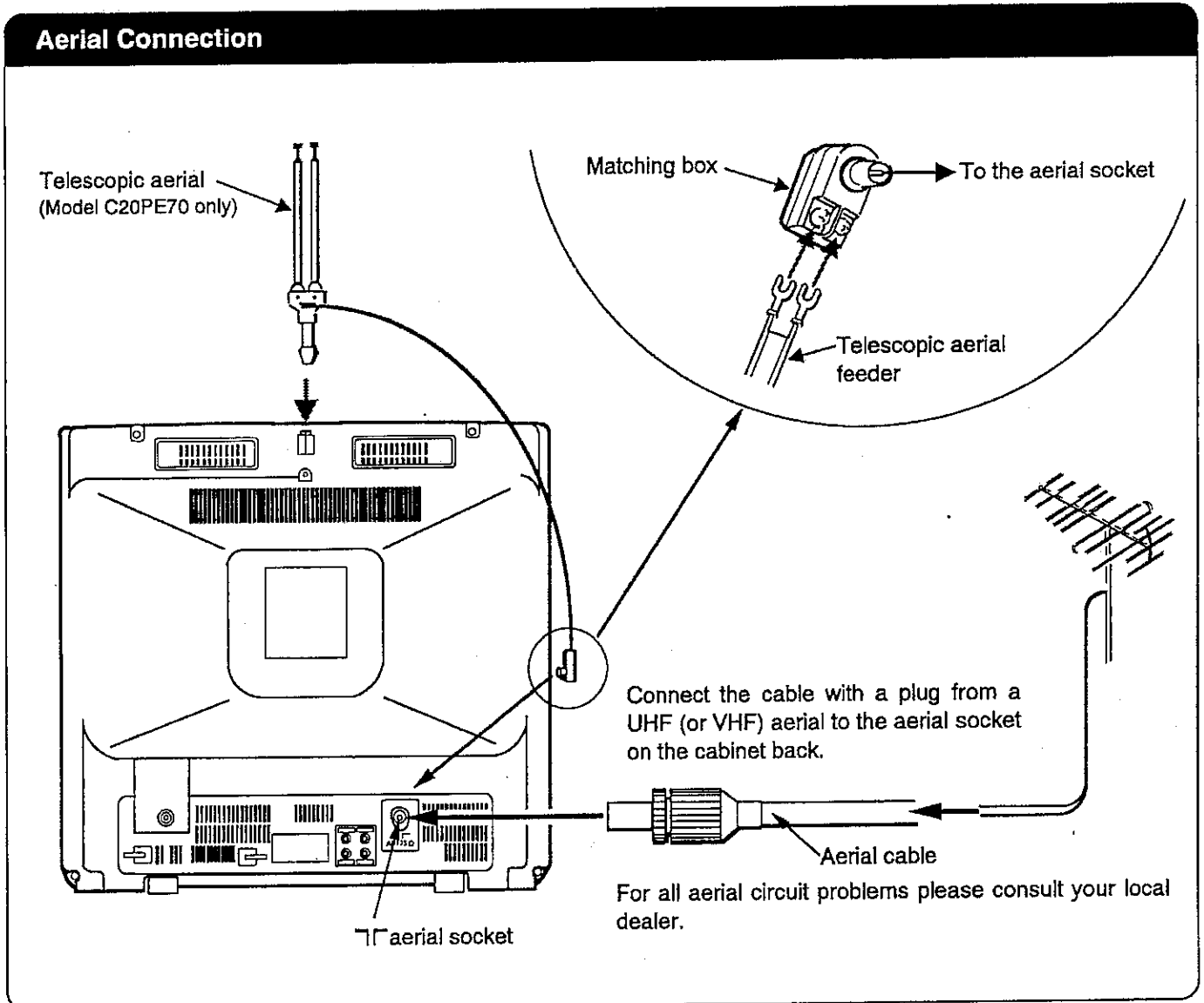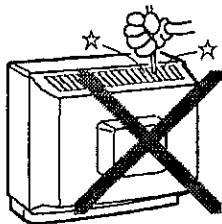
Warnings and Cautions

⚠ 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.
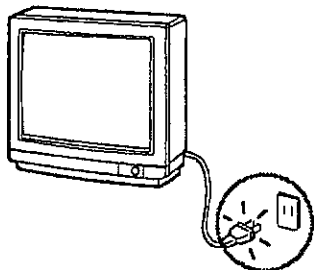
⚠ Warning

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.
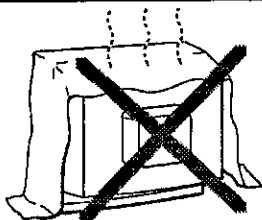
⚠ Caution

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.
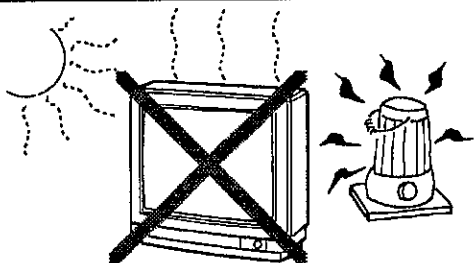
⚠ Caution

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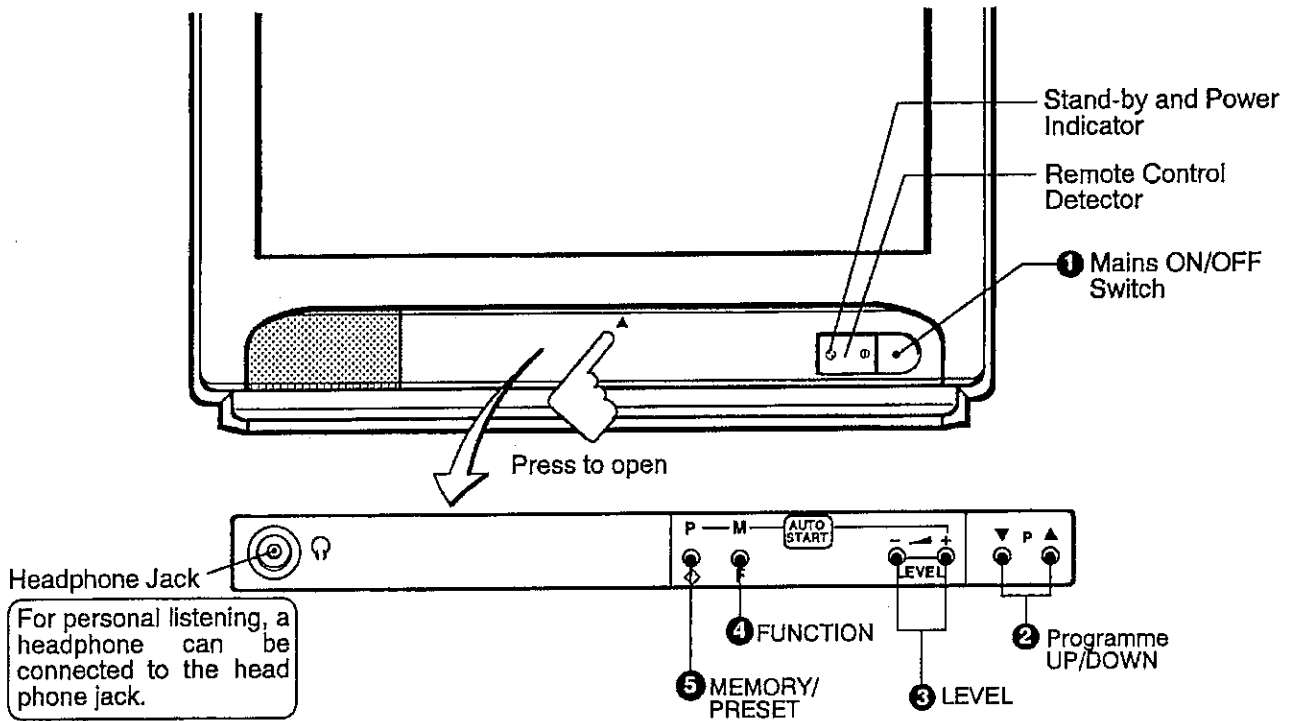
Do not block the ventilation holes in the back cover.
Adequate ventilation is essential to prevent failure of electrical components.
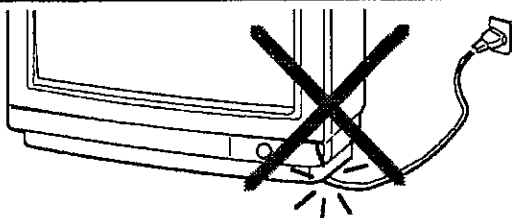
⚠ Caution

Do not squash power supply cord under the television receiver.

Controls

Stand-by and Power Indicator

Remote Control Detector

❶ Mains ON/OFF Switch

Press to open

Headphone Jack

For personal listening, a headphone can be connected to the head phone jack.

P — M   AUTO START   — ◢ +   ▼ P ▲

LEVEL

❹ FUNCTION

❺ MEMORY/ PRESET

❸ LEVEL

❷ Programme UP/DOWN

Remote Control Transmitter

Teletext keys

2-2 Digit

2-1 Programme Selector

❻ RECALL

❷ Programme UP/DOWN

❸ LEVEL

FUNCTION ❹

❼ ALTERNATE

SOUND MUTE ❽

1-1 Power ON/OFF

OFF TIMER ❾

⓫ TV/AV Selector

❿ NORMALIZATION

Model C20PE70 / C20ZE70
C21PM40 / C21ZM40

Model C21PM45
C21ZM45

General Operation

To switch on or off the TV;

Press the Mains ON/OFF **①** button.

The power of the TV is turned on, or off completely.

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

To set the TV to standby mode;

Press the Power ON/OFF button **1-1** .
To turn on theTV, press again.
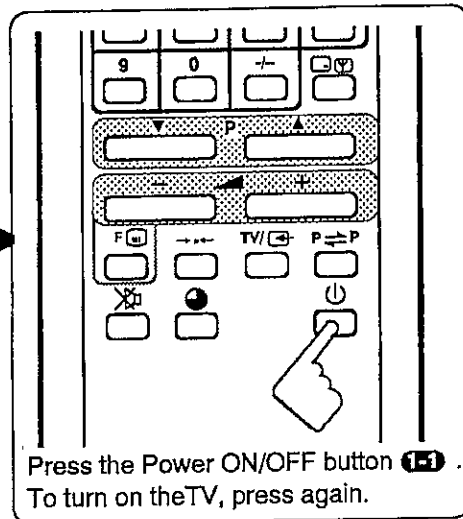
To turn on the TV from standby mode;

Press
Power ON/OFF **1-1**
(remote control transmitter)

or

Programme UP/DOWN **②**
(remote control transmitter)

or 1 to 9, 0 Key
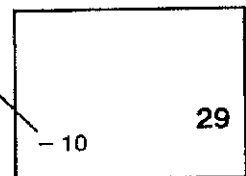(remote control transmitter)

or ▼ P ▲
Programme UP/DOWN **②**
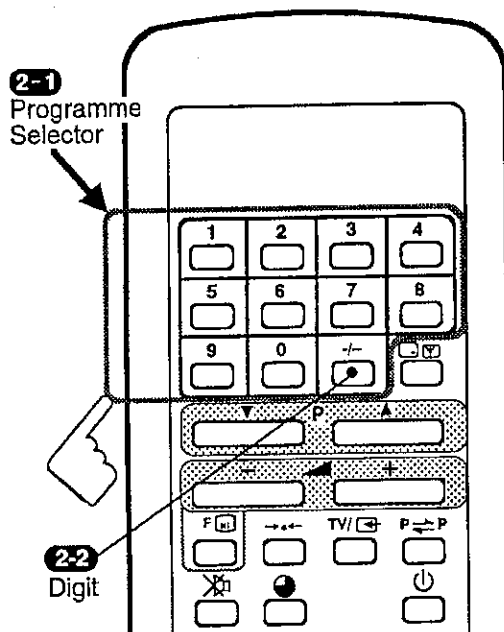(TV set)

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

29
— 10

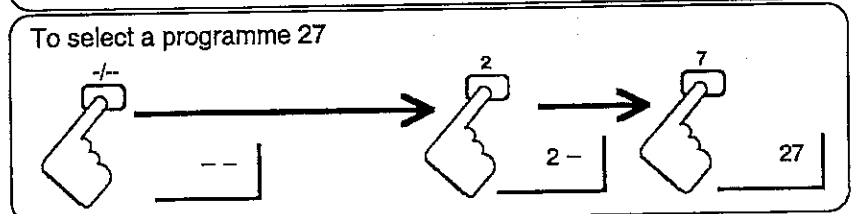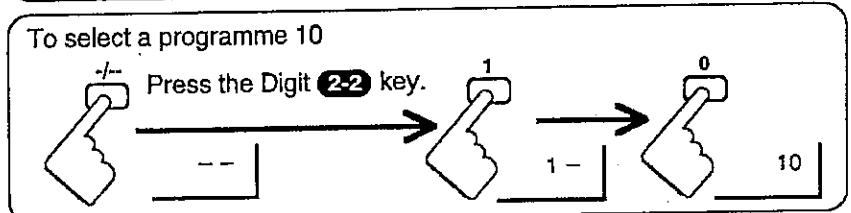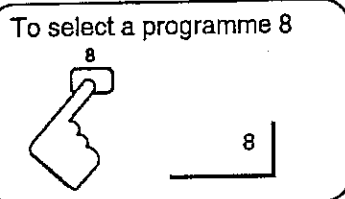## To select a programme directly

2-1
Programme Selector

2-2
Digit

For example;

To select a programme 8
8
8

To select a programme 10
Press the Digit **2-2** key.
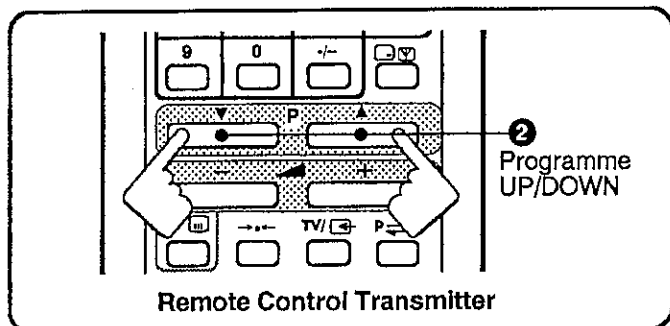— — → 1 — → 10

To select a programme 27
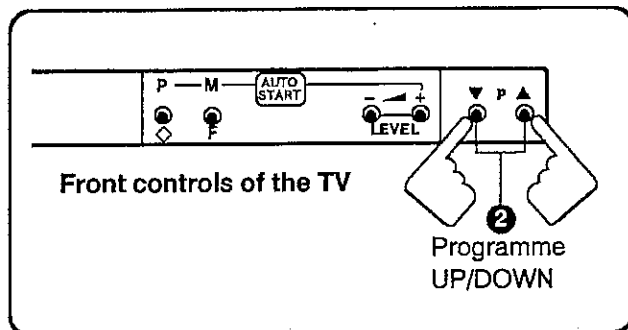— — → 2 — → 27

— 5 —

General Operation

Programme Selection (Programme UP and Down)

To select a channel

Remote Control Transmitter

or

Front controls of the TV

Programme UP/DOWN

Volume Control

To adjust the sound volume

❸ LEVEL

or

❸ LEVEL

SOUND
IIIIII---------
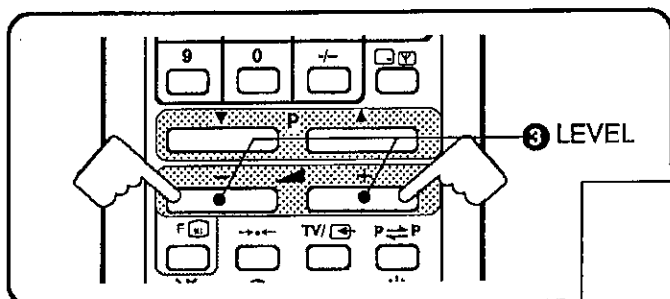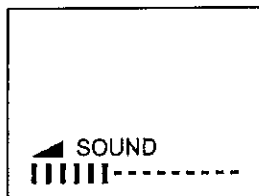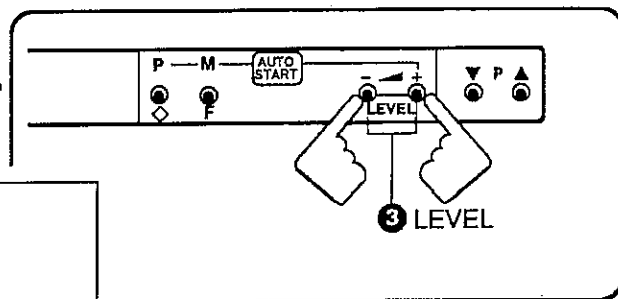
RECALL

To display the on screen indications, press the RECALL key.

❻ RECALL

off timer

29 Programme position

- 30
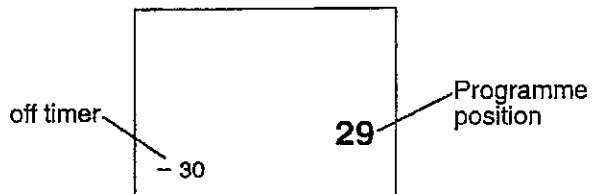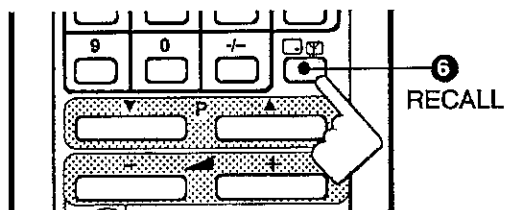
Screen display disappears after about 5 seconds.

ALTERNATE

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

❼ ALTERNATE

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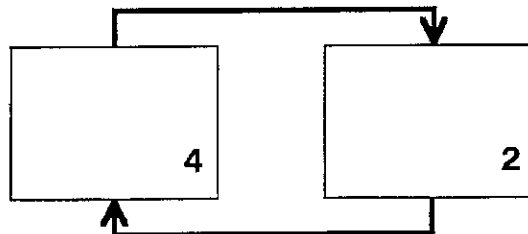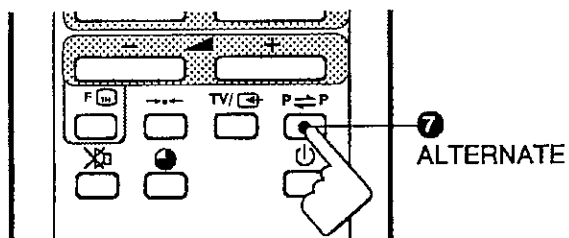
For example, now you are watching programme position "4" but you watched programme position "2" previously. If you press the ALTERNATE key, programme position "2" immediately appears.

General Operation

SOUND MUTE

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

❽ SOUND MUTE
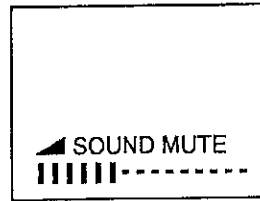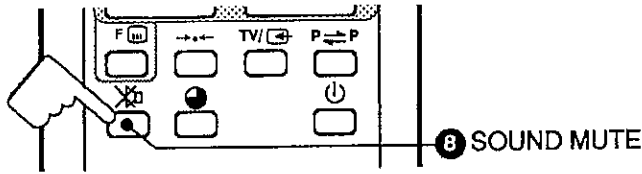
◢ SOUND MUTE
IIIIII---------

To switch the sound back on, press 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 ❾ key.

❾ OFF TIMER

--- → - 30 → - 60
No off timer   After 30 minutes   After 60 minutes

- 120 ← - 90
After 120 minutes   After 90 minutes
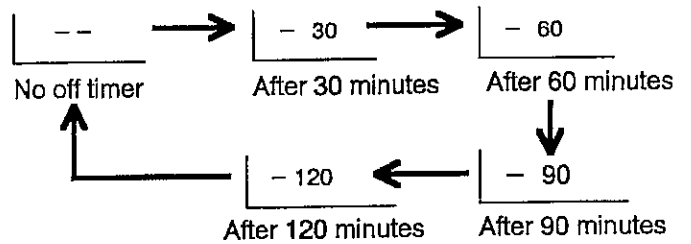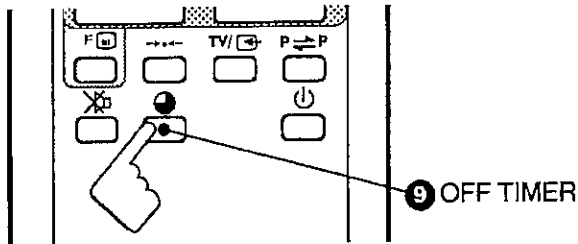
To cancel the OFF TIMER
Press the OFF TIMER key until " -- " appears.

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

- 01   25

MEMORY

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

To store the picture and sound settings
(1) Set the picture and sound to the desired levels. ➡ ◢ SOUND
IIIIII-------- etc.
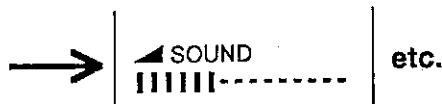
(2) Press the MEMORY/PRESET ◇ ❺ button while the control function display is still visible on the screen.

❺ MEMORY/PRESET ➡ MEMORY
-- ➔ ◄ --
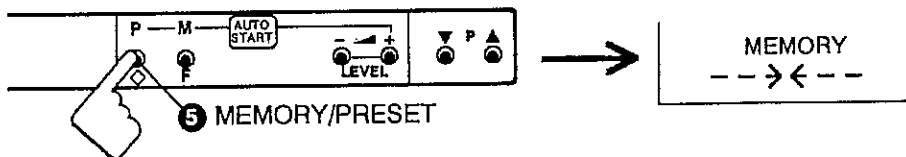
NOTE: The control settings will not be saved if the MEMORY button is pressed after the control function display has left the screen.

NORMALIZATION
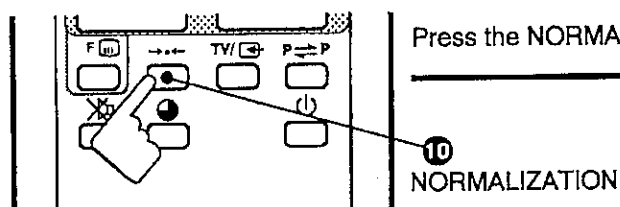
Press the NORMALIZATION ❿ key.

❿ NORMALIZATION

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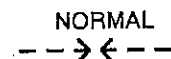
The colour, brightness, contrast, sharpness and sound volume settings which you stored using the MEMORY button are recalled.

-7-

General Operation

PICTURE ADJUSTMENTS

(1) Select the adjustment item using the FUNCTION ❹ key.

FUNCTION

❹

or

(Front controls of the TV)

❹ FUNCTION

(2) Adjust using the LEVEL ❸ + and − key .

❸
LEVEL

or

❸ LEVEL
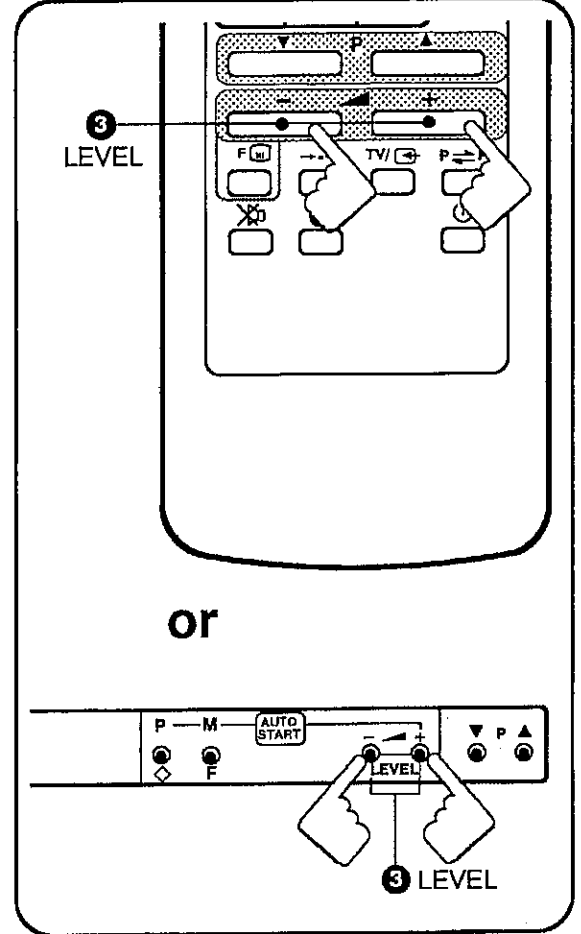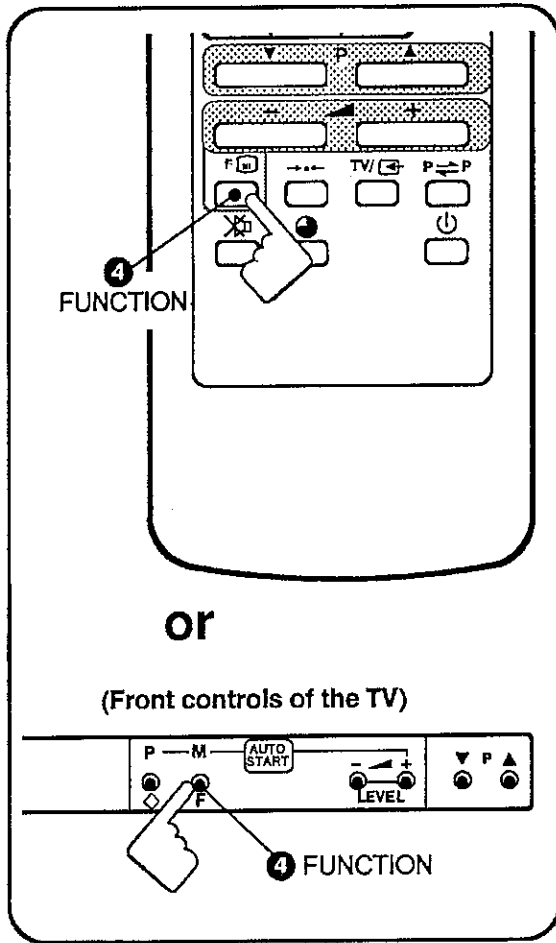
Each time the FUNCTION ❹ key is pressed, function choice will change as follows;

⊕ COLOUR IIIIIIIIIIIIII----	☼ BRIGHT IIIIIIIIIIIIII----	◑ CONTRAST IIIIIIIIIIIIII----
Colour intensity	**Brightness**	**Contrast**
	< > 	⊞ SHARPNESS --------┼-┼-----
Display off	**Fine tuning** (Operative for TV mode only)	**Sharpness**

− 8 −
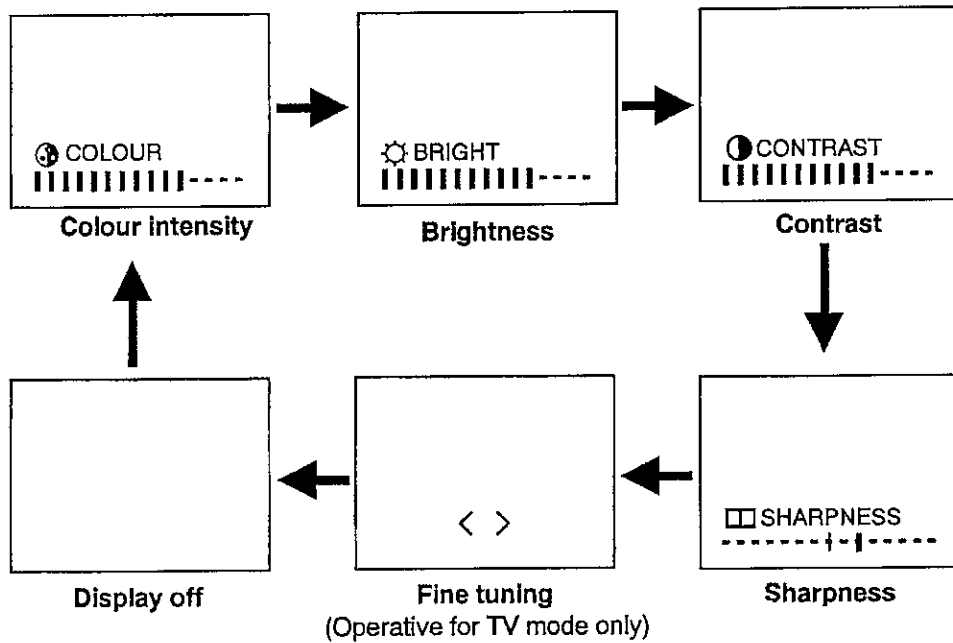
Special Functions

You can set the special functions by inputting the special codes using the RECALL ❻ key and the Programme Selector ❷❶ of the remote control transmitter.

Special codes and special functions are as follows

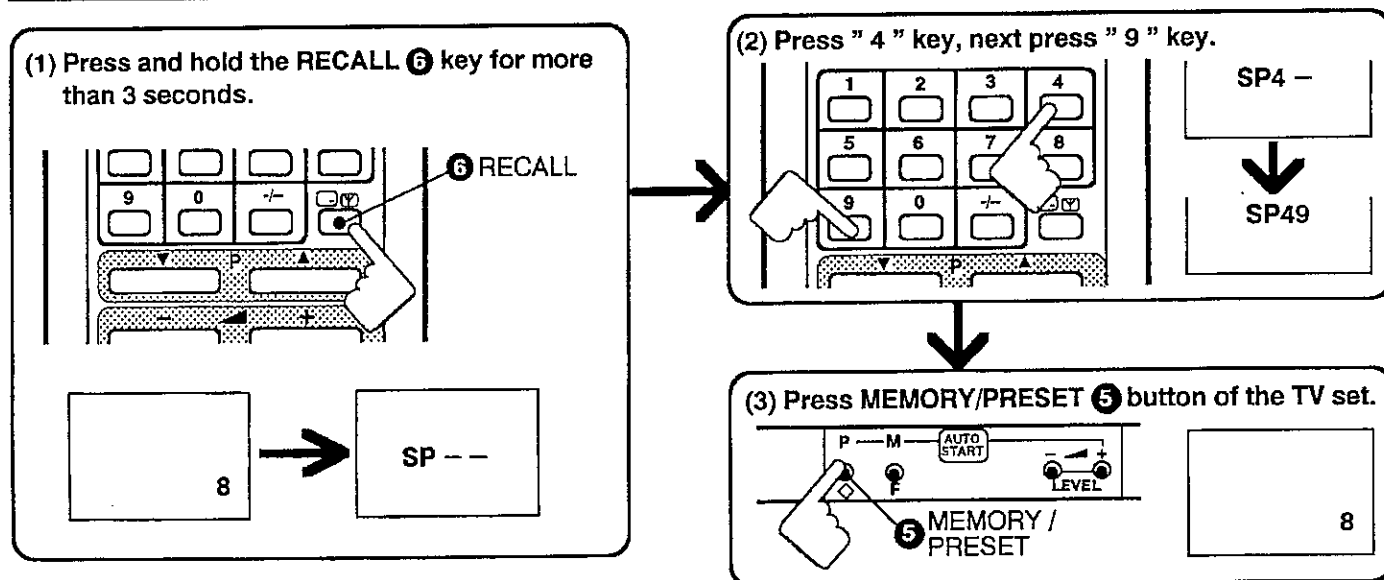| Special code	Special functons
SP 00	Reset all special functions (The start condition for the TV power is changed to the standby start).
SP 01	Reset all special functions.
SP 30	Cancellation special code "31".
SP 31	Maximum volume level setting and prohibition of channel tuning function.
SP 40	Setting of the start up condition for the TV programme.(Always switched on in previous programme position)
SP 41	Setting of the start up condition for the TV programme. (Always switched on in programme position "1")
SP 42	Setting of the start up condition for the TV programme. (Always switched on in programme position "2")
SP 43	Setting of the start up condition for the TV programme. (Always switched on in programme position "3")
SP 44	Setting of the start up condition for the TV programme. (Always switched on in programme position "4")
SP 45	Setting of the start up condition for the TV programme. (Always switched on in programme position "5")
SP 46	Setting of the start up condition for the TV programme. (Always switched on in programme position "6")
SP 47	Setting of the start up condition for the TV programme. (Always switched on in programme position "7")
SP 48	Setting of the start up condition for the TV programme. (Always switched on in programme position "8")
SP 49	Setting of the start up condition for the TV programme. (Always switched on in AV mode)
SP 50	Change of the start condition for the TV power (Setting to the standby start).
SP 51	Change of the start condition for the TV power (Setting to the normal start).
SP 60	Cancellation special function 61.
SP 61	Suppression of the auto shut off function.

Note: Special functions are not cancelled when the power is turned off or when the AC power plug is disconnected from the mains.

Example: To input special code "49"   (The input method is the same for all the special codes.)

(1) Press and hold the RECALL ❻ key for more than 3 seconds.

❻ RECALL

SP − −

(2) Press " 4 " key, next press " 9 " key.

SP4 −

SP49

(3) Press MEMORY/PRESET ❺ button of the TV set.

❺ MEMORY / PRESET

Special Functions

SP00 and SP01 (Reset all special functions)

■ When "SP01" is input, all special functions are reset.

■ When "SP00" is input, all special functions are cancelled, and the start condition for TV power is changed to the standby start condition, meaning that the picture will not appear even when the mains ON/OFF switch ❶ is set at the on position. To turn on the TV set from the standby mode, press the Power ON/OFF ⬤,Programme UP/DOWN ❷ or Programme Selector ⬤ key.

## SP 31 (Maximum volume level setting and suppression of channel tuning function)

"SP31" is used to set a limit for the maximum volume level while keeping the current preset programme position in memory.
When "SP31" is entered, the volume output at the time of entering the code is placed in the memory as the maximum volume level. In other words, with this code it is possible to set the maximum volume at your preference. Entering this code automatically suppresses the preset function, so that even if the preset button is pressed, the preset mode will remain inactive.

(1)Set the disirable volume level using the LEVEL ❸ key.

❸ LEVEL

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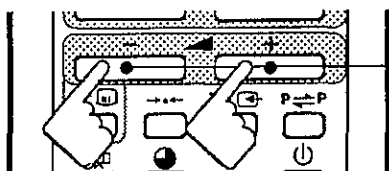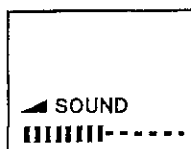
The volume level set in this procedure will be memorized as the maximum volume level.

(2) Input "SP31".

To cancell "SP 31", input "SP 30".

SP50 and 51 (Change of the start condition for the TV power)

When "SP 50" is entered, the start condition of the TV power is set to the standby start condition, meaning that the picture will not appear even when the Mains ON/OFF switch ❶ is set at the on position(The TV set remains in standby mode).

To return the TV's power start condition to its original condition(normal start condition), input "SP51".

SP60 and SP61 (Suppression of the auto shut off function)

When "SP 61" is entered, the auto shut off function is suppressed.

AUTO SHUT OFF
(Refer to page 5)

-10

29
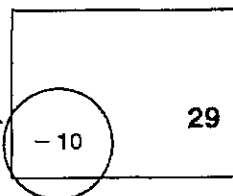
To cancell "SP61", input "SP60".

Special Functions

These functions can be used to change the start up condition of the TV set as follows;

When "SP40" Is Input
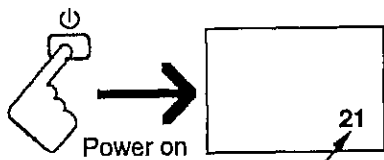
Power on

Previous
programme
position

The previously viewed programme
position is always selected.

When "SP41" Is Input

1

The TV will always switch on in
programme position 1.

When "SP42" Is Input

2

The TV will always switch on in
programme position 2.

"SP43"

3

"SP44"

4

"SP45"

5

"SP46"

6

"SP47"

7

"SP48"

8

"SP49"

AV
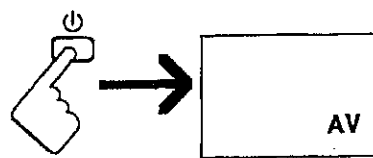
The TV will always switch on in
AV mode.

— 11 —

Tuning of the Channels

There are three ways of tuning as follows;

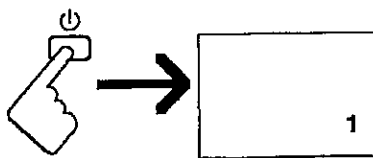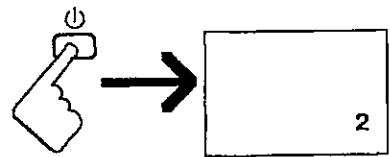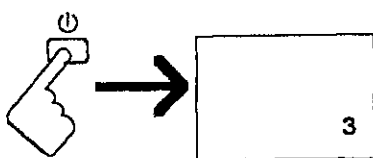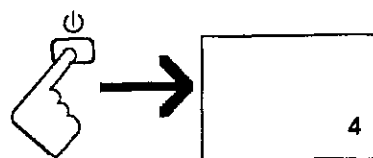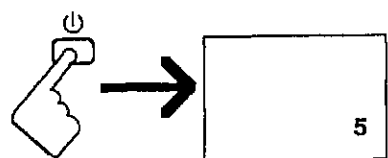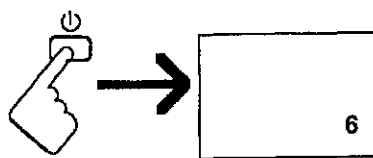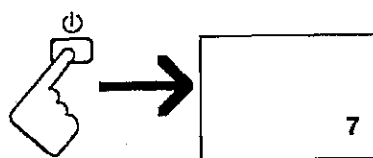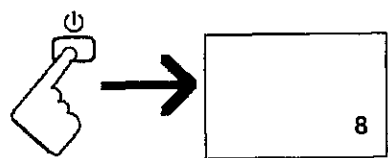**Automatic Tuning (the basic way)**
All receivable channels are automatically tuned in and memorized in consecutive programme position.

Search 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** .

(Front controls of the TV)

Programme position

Channel band

AUTO TUNING
3   VL

⑤ MEMORY / PRESET
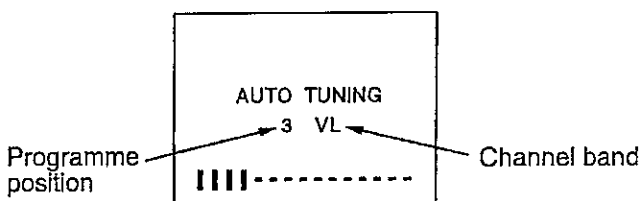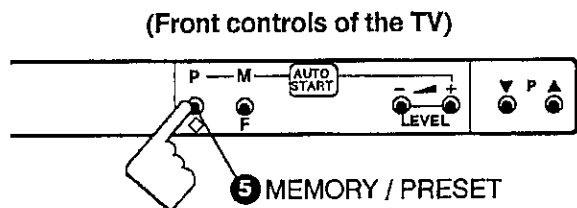
(2) Press the LEVEL(+) **③** button.

LEVEL(+)
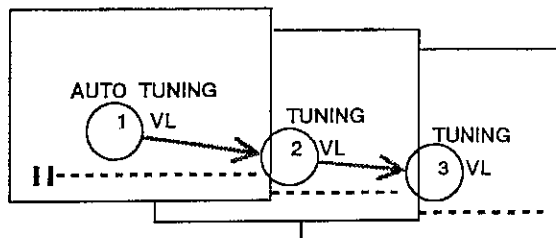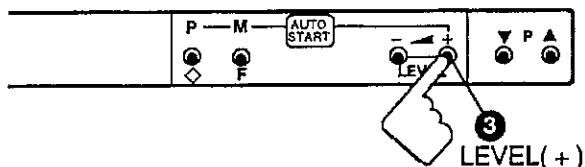
The channels are preset in consecutive positions begining from the programme position "1".
After all available channels have been preset, the unit returns to the position "1".

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

AUTO TUNING
1   VL

TUNING
2   VL

TUNING
3   VL

1
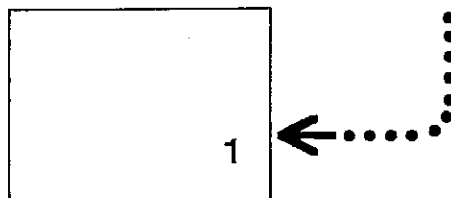
Channel Copy

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

(2) Press the MEMORY/PRESET button **⑤** 3 times. ⟶
MANUAL TUNING
2   VL
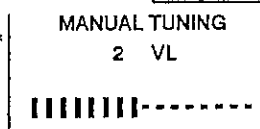
(3) Select the programme position 6 using Programme UP/DOWN **②** button of the TV set. ⟶
MANUAL TUNING
6   VL
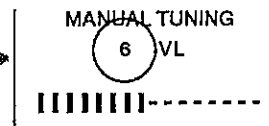
(4) Press FUNCTION button **④** . ⟶
MANUAL TUNING
6   VL
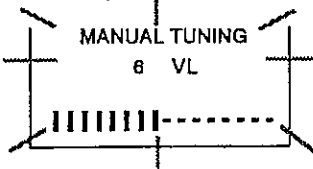
(5) Press the MEMORY/PRESET button **⑤** .
6

Tuning of the Channels

Example: To preset a channel in programme position 6

Search Tuning	Manual Tuning

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

6

---

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

SEARCH TUNING
6 VL

|||| - - - - - - - - - - - -
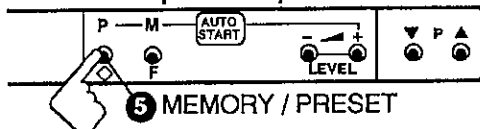
5 MEMORY / PRESET

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

MANUAL TUNING
6 VL

||||||||| - - - - - - - -

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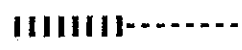
(3) Press the LEVEL(+) or (−) **3** button.

SEARCH TUNING
6 VL

||||||||||||| - - -

When a station is found, searching stops automatically.
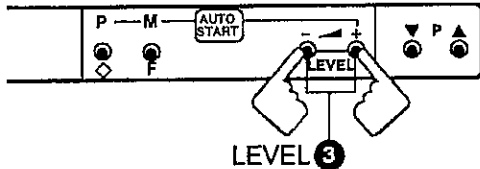
LEVEL **3**

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

MANUAL TUNING
6 VL

|||||||||||| - - - -

---

(4) Press the FUNCTION button **4** of the TV set.

SEARCH TUNING
6 VL

||||||||||| - - - -
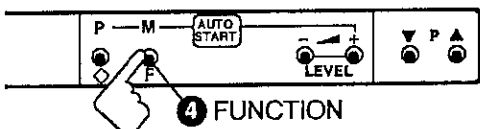
4 FUNCTION

MANUAL TUNING
6 VL

||||||||||||| - - - -

---

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

6

This completes the presetting.
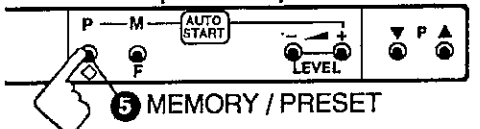
5 MEMORY / PRESET

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

6

This completes the presetting.

Repeat steps 1 to 5 for other desired channels.

Teletext Use Note: Model C20PE70, C20ZE70, C21PM40, C21ZM40 — Not equipped with the Teletext Decoder.

SIZE

TV/TEXT/MIX

CANCEL(RED)

REVEAL(GREEN)

Page Selection

Page UP(▲)/DOWN(▼)

HOLD

INDEX

TIME/SUB(CYAN)

YELLOW

Digit

(1) To use CANCEL, REVEAL or TIME/SUB in Text mode, press the Digit button first.

To return to the normal text display, press the Digit button again.

TEXT PAGE

⟨X⟩ ⟨?⟩ S∗∗∗∗

TEXT PAGE

500 502 510 600

You can use CANCEL, REVEAL or TIME/SUB when this display is shown.

(2) Next, press the CANCEL, REVEAL or TIME/SUB key.

■ Switching to the Teletext mode

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

TV → (TV/TEXT/MIX) → TEXT → (TV/TEXT/MIX) → TV/TEXT MIX → (TV/TEXT/MIX) → TV
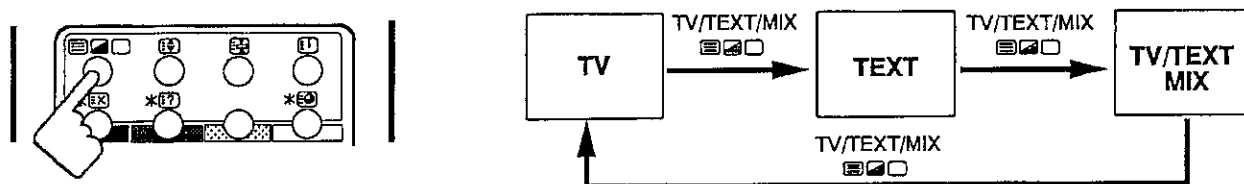
■ Page Selection

Direct Page Access

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

For example:
To select page 120, press 1 → 2 → 0

P120
TEXT PAGE
119 121 130 200
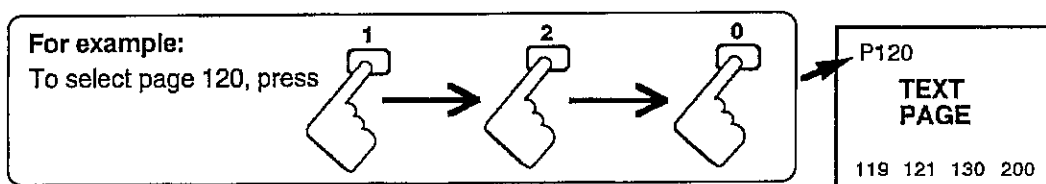
UP~DOWN Page Access

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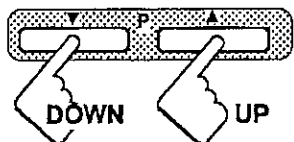
Press the Page UP(▲) button to step up to the next higher Teletext page.

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

■ To display the Index Page
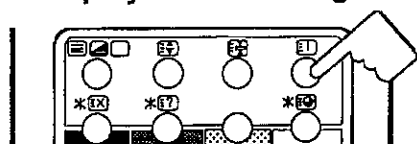
To return to the index page, press the INDEX button

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.

TEXT PAGE

〈X〉 〈?〉   S****
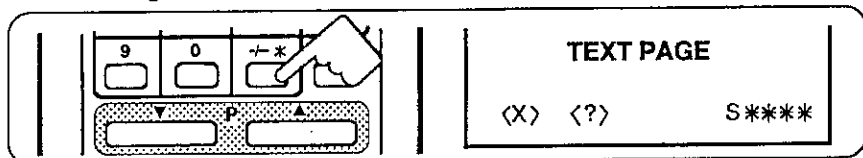
(3) Press the TIME/SUB button.

S****
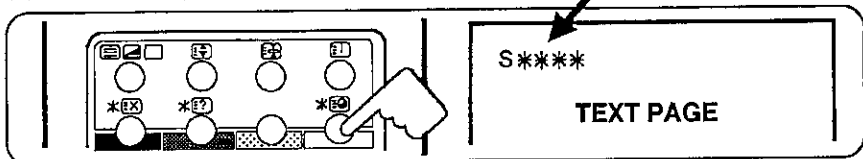
TEXT PAGE

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

(4) Enter the desired sub-page.

Example:
To enter the sub page "10", you must press the 0, 0, 1, and 0 button.

0 → 0 → 1 → 0

S0010

TEXT PAGE

(5) Press the CANCEL button.

CANCEL   Normal TV Picture   Normal TV Picture

S0010

When the selected sub-page is reached, the page number will appear over the normal TV picture.
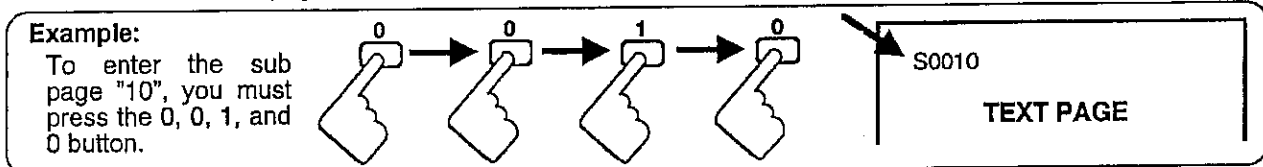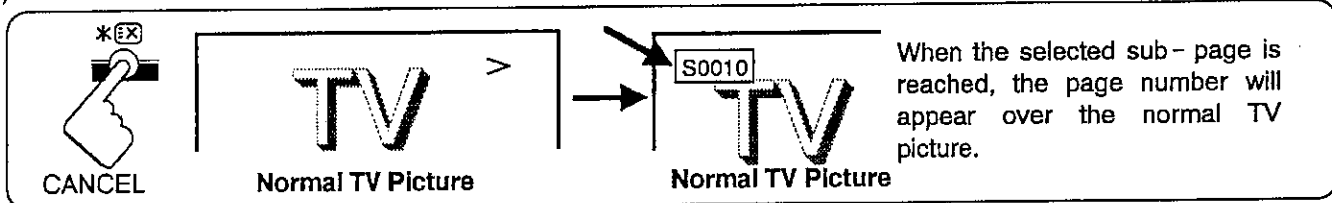
(6) Press the TV/TEXT/MIX button to display the received sub-page.

S0010

TEXT SUB-PAGE
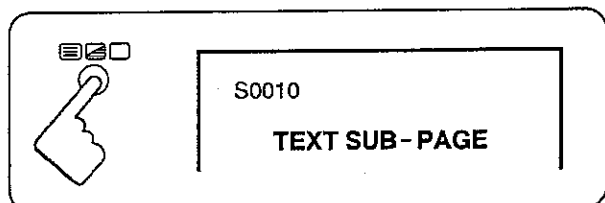
Note:
To clear the sub-coded page, enter a new page number.

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.

P351 P301

TEXT
PAGE

199 101 110 220

Digit   CANCEL   Normal TV Picture   Normal TV Picture   TV/TEXT/MIX

P351 P308

TEXT
PAGE

〈X〉 〈?〉 S****

P351

When the page arrives, the page number will appear on the normal TV picture.

P351

TEXT
PAGE

350 352 360 400
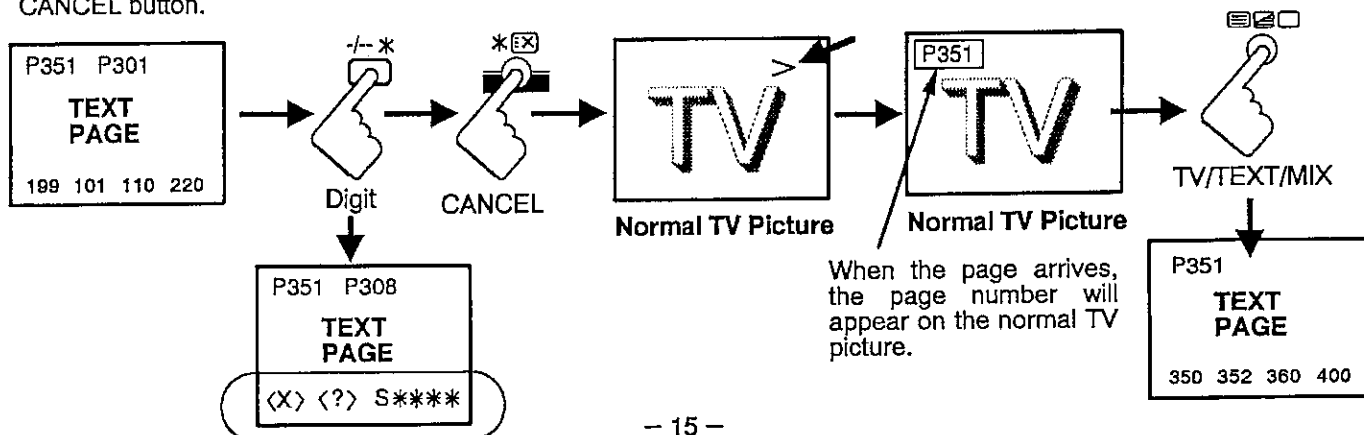
Teletext Use

■ 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.

HOLD

HOLD
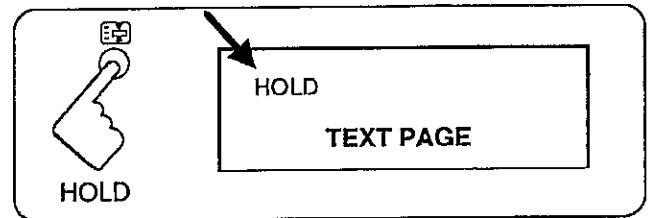
TEXT PAGE

■ Double letter height

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

SIZE

TELETEXT DISPLAY → TELETEXT → DISPLAY

Upper half of the screen

Lower half of the screen
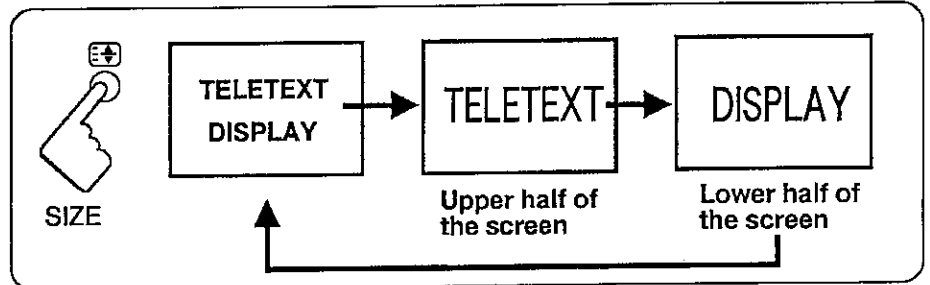
■ Displaying concealed information

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.

-/--*

Digit

P471
QUIZ
?
<X> <?> S****

*⊞

REVEAL

P471
QUIZ
ANSWER
<X> <?> S****

*⊞

REVEAL

P471
QUIZ
?
<X> <?> S****
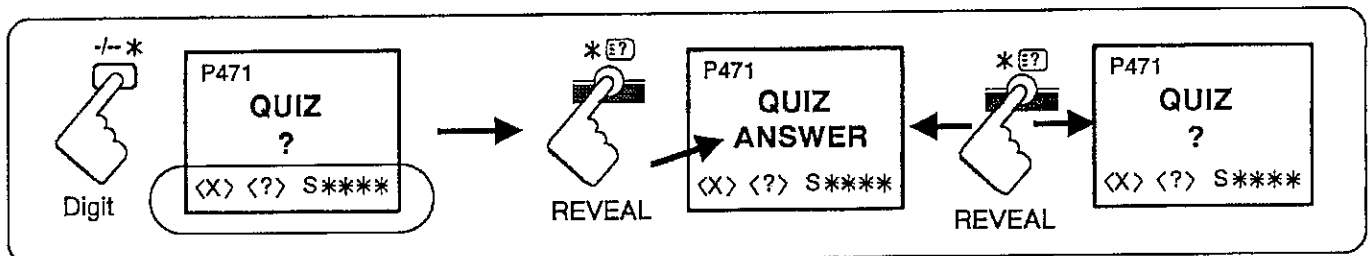
■ News flash

(1) In the text mode, select a newsflash page.

P500
NEWS FLASH
599 501 510 600

(TEXT mode)

(2) Press the Digit button.

-/--*

P500
NEWS FLASH
<X> <?> S****

(TEXT mode)

(3) Press the CANCEL button.

*⊞

TV

(Normal TV picture)

(4) As soon as news comes in, the word "NEWS FLASH" and the news appears over the normal TV picture.

TV
NEWS FLASH

(5) Press the TV/TEXT/MIX button.
⊟⊠▢

P500
SPORT NEWS
599 501 510 600

(TEXT mode)

P500
SPORT NEWS
TV
599 501 510 600
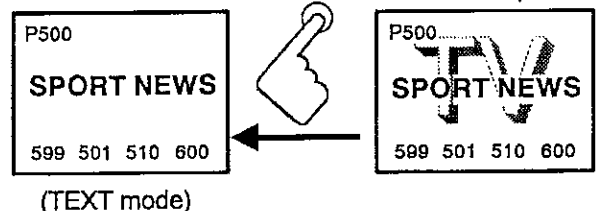
Note : It is not possible to select another TV station during a NEWS FLASH. You should first switch back to TV reception by pressing the TV/TEXT/MIX button.

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;

-/- * (1) Press the Digit button.

*[EX] (2) Press the CANCEL button.

(3) As soon as this page is updated, the page number will appear on the normal TV picture.

```
P300

Updated Page

399  301  310  400
```
(TEXT mode)

```
P300

Updated Page

⟨X⟩ ⟨?⟩ S****
```
(TEXT mode)

TV >

(Normal TV picture)

P300 >

TV

(Normal TV picture)

(4) Press the TV/TEXT/MIX button.

Note : It is not possible to select another TV station during an UP - DATE. You should first switch back to TV reception by pressing the TV/TEXT/MIX button.

```
P300

Updated Page

399  101  310  400
```
(TEXT mode)

■ TIME *⊡

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

*⊡

TIME/SUB

18:05/47

TV

(Normal TV picture)
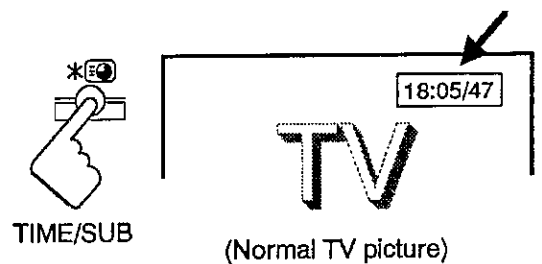
Teletext Use

■ 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 Fastext 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)

TEXT INDEX

News	Travel	TV	Weather
Red	Green	Yellow	Cyan

e.g. To select the NEWS page, press the RED key.

RED key

NEWS

News	Sport	City	Travel
Red	Green	Yellow	Cyan

■ Non FLOF Service

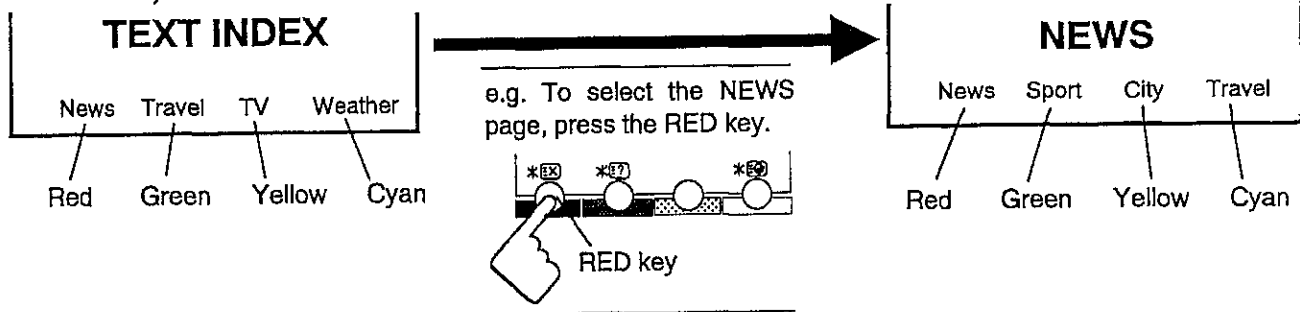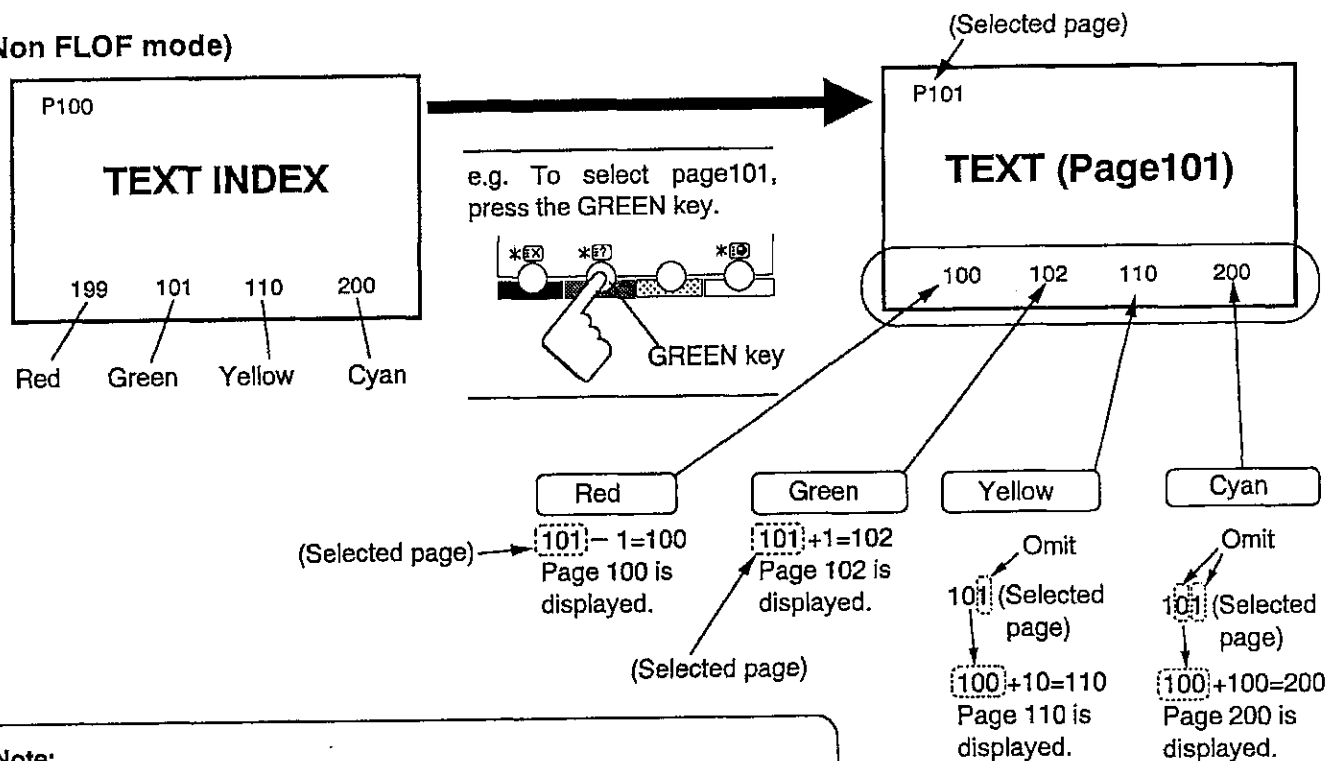When the station does not have FLOF service, the INDEX page(P100) is automatically displayed.
At the bottom of the screen, the four page numbers 199,101,110,200 are also displayed. Then, when you select a random page number out of the displayed four pages by pressing a colour button, the text of that page is displayed.

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

(Non FLOF mode)

P100

TEXT INDEX

199	101	110	200
Red	Green	Yellow	Cyan

e.g. To select page101, press the GREEN key.

GREEN key

(Selected page)

P101

TEXT (Page101)

100	102	110	200

| Red	Green	Yellow	Cyan
(Selected page) → 101 − 1=100 Page 100 is displayed.	101 +1=102 Page 102 is displayed.	Omit 101 (Selected page) ↓ 100 +10=110 Page 110 is displayed.	Omit 101 (Selected page) ↓ 100 +100=200 Page 200 is displayed.

(Selected page)

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

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Connecting other Equipment
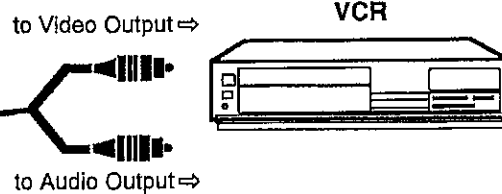
Connecting to the AV input jacks

(A/V Terminal)

Rear of the Set
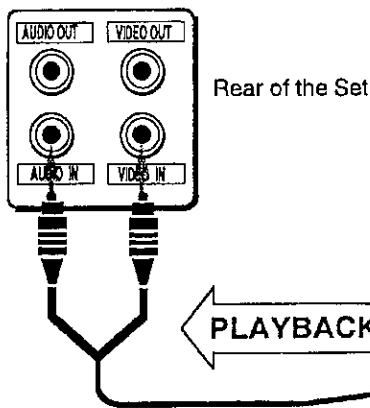
Connect the video and audio outputs of a VCR, video disc player, etc. to the input jacks of this TV set. Tapes and discs can be played back.
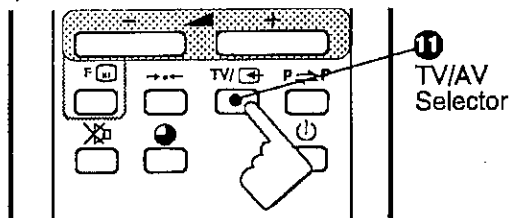
VIDEO/AUDIO Input level

	Level	Impedance
VIDEO INPUT	1.0Vp-p	75 Ω
AUDIO INPUT	436mVrms	More than 40K Ω

PLAYBACK

to Video Output ⇒

to Audio Output ⇒

VCR

To watch the video input picture

(1) Press the TV/AV Selector ⑪ .
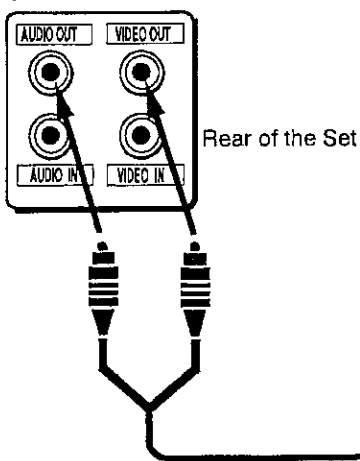
TV/AV Selector

28 ➡ AV

(2) Set the VCR to playback mode.

To return to the TV mode;

Press the TV/AV Selector again.

Connecting to the AV output jacks

(A/V Terminal)

Rear of the Set

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

To record TV broadcasts, Select the TV mode using TV/AV Selector ⑪ .

to video input ⇒

VCR for recording

Recording TV broadcasts

to audio input ⇒
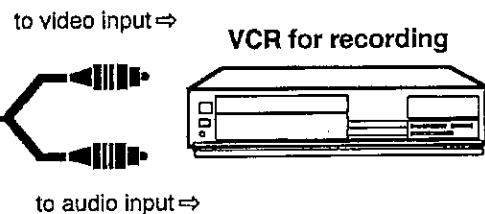
VIDEO/AUDIO output level

	Level	Impedance
VIDEO OUTPUT	1.0Vp-p	75 Ω
AUDIO OUTPUT	436mVrms	Less than 600 Ω

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Connecting other Equipment

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

VCR for recording

to Audio lutput⇕

to Video lutput⇕
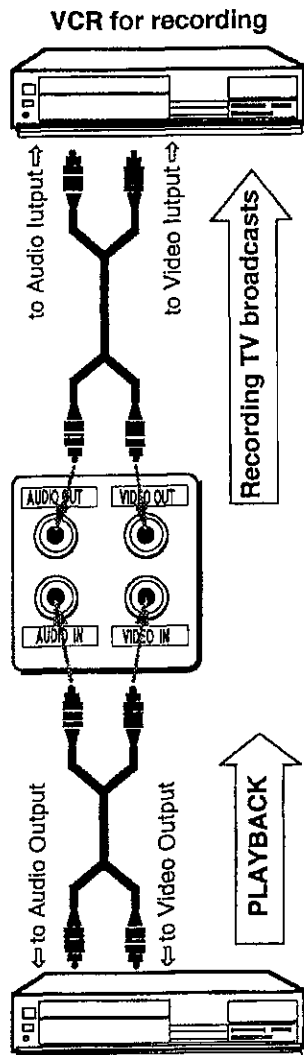
Recording TV broadcasts

AUDIO OUT   VIDEO OUT

AUDIO IN   VIDEO IN

⇕ to Audio Output
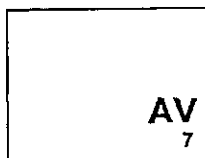
⇕ to Video Output

PLAYBACK

VCR for playback

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

(1) Press the TV/AV Selector ⑩ , and set the VCR to playback mode.

```
AV
```
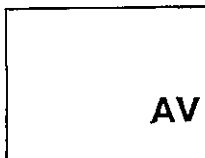
(2) Press " 7 " key of the Programme Selector ㉕ .

```
AV
   7
```

(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 Search tuning & Manual tuning on page 14).

Watching the video input

Select programme position 0.

```
0
```

VCR

PLAYBACK

⊓⌐aerial socket
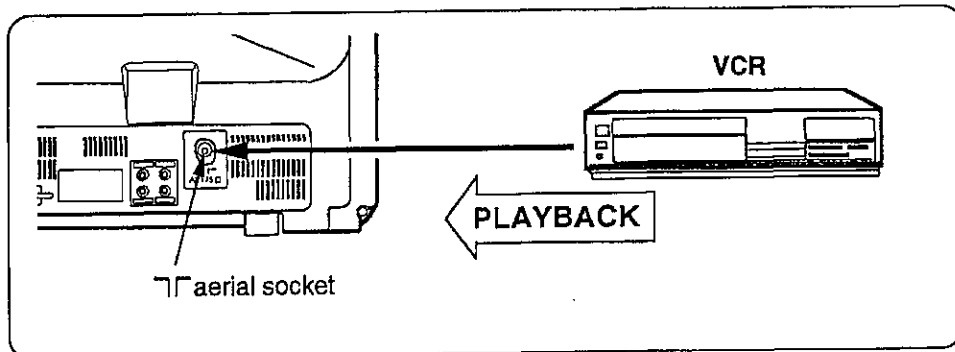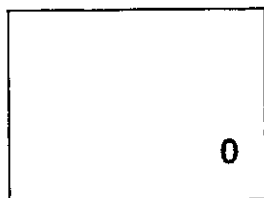
For further details concerning this connection and adjustment, refer to the operating instructions for the AV equipment.

Specifications

Power source   AC 220-240 Volts, 50Hz.

Receiving system   PAL-B/G

Channel coverage   Model C20PE70, C21PM40, C21PM45
                        VHF: 0-11, 5A
                        UHF: 28-69
                    Model C20ZE70, C21ZM40, C21ZM45
                        VHF: 1-11
                        UHF: 21-69

Aerial input impedance   75 Ω

Audio output (Music)   3.5W

Ext. terminals   AV Inputs:
                        Video input(Phono jack) x 1
                        Audio input(Phono jack) x 1
                    AV Outputs:
                        Video output(Phono jack) x 1
                        Audio output(Phono jack) x 1
                    Headphone jack(Mini jack) x 1

Dimensions   C20PE70, C20ZE70: 494(W) x 442(H) x 472(D)mm

                    C21PM40, C21PM45, C21ZM40, C21ZM45: 501(W) x 470.4(H) x 485(D)mm

Weight   C20PE70, C20ZE70:
                    C21PM40, C21PM45, C21ZM40, C21ZM45: approx. 20.5 Kg

Specifications subject to change without notice.

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.

SANYO

SANYO ELECTRIC Co., Ltd