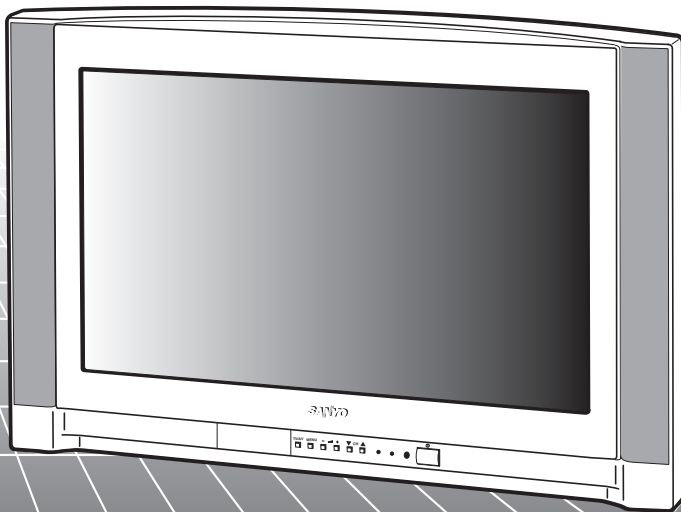


SANYO

INSTRUCTION MANUAL

CP28WF1

Colour Television



- **66 cm Flat Wide Screen**
- **A2 & Digital NICAM Stereo**
- **Surround Sound System**
- **Video Component Input Terminal**
- **WSS (Wide Screen Signaling)**

Warnings and Cautions



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.



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.



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



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



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



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



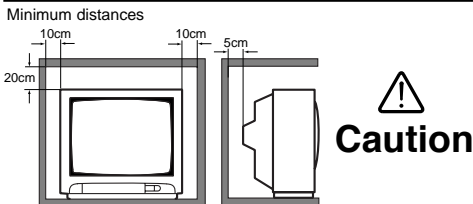
Never stand on, lean on or push suddenly the television or its stand. You should pay special attention to children. Serious injury may result if it should fall.



Do not squash power supply cord under the television receiver.



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.



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.

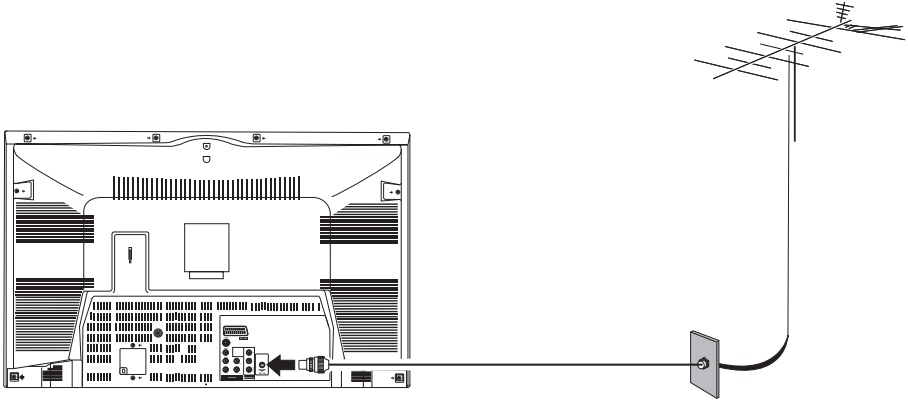
Installation

STEP 1

■ Connecting the aerial

Use one of these methods to connect a signal to your TV.

Following connection examples are our recommended standard connection. For further information please consult your local dealer.



✎ For all aerial circuit problems please consult your local dealer.

STEP 2

■ Connecting AC cord

Connect the power cord of the TV set to a wall outlet.

✎ The TV set is prepared for a mains voltage AC 220~240V 50/60Hz. When the TV set is not to be used for an extended period of time, it is advisable to disconnect the power cord from the power outlet.



WARNING!

High voltages are used in the operation of this set. Refer service to qualified service personnel.

STEP 3

■ Plug & Play

Let's start !

This TV set provides a self-automatic tuning system function called "**Plug & Play**". It automatically begins searching and storing of all available channels when switching-on the TV set for the first time.

1 Press the **Power ON/OFF** button to turn the TV on, and the TV set will search and store of all available TV channels automatically.

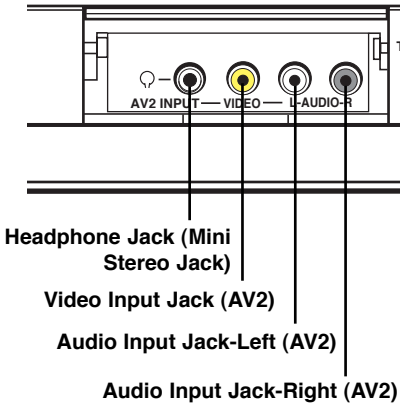
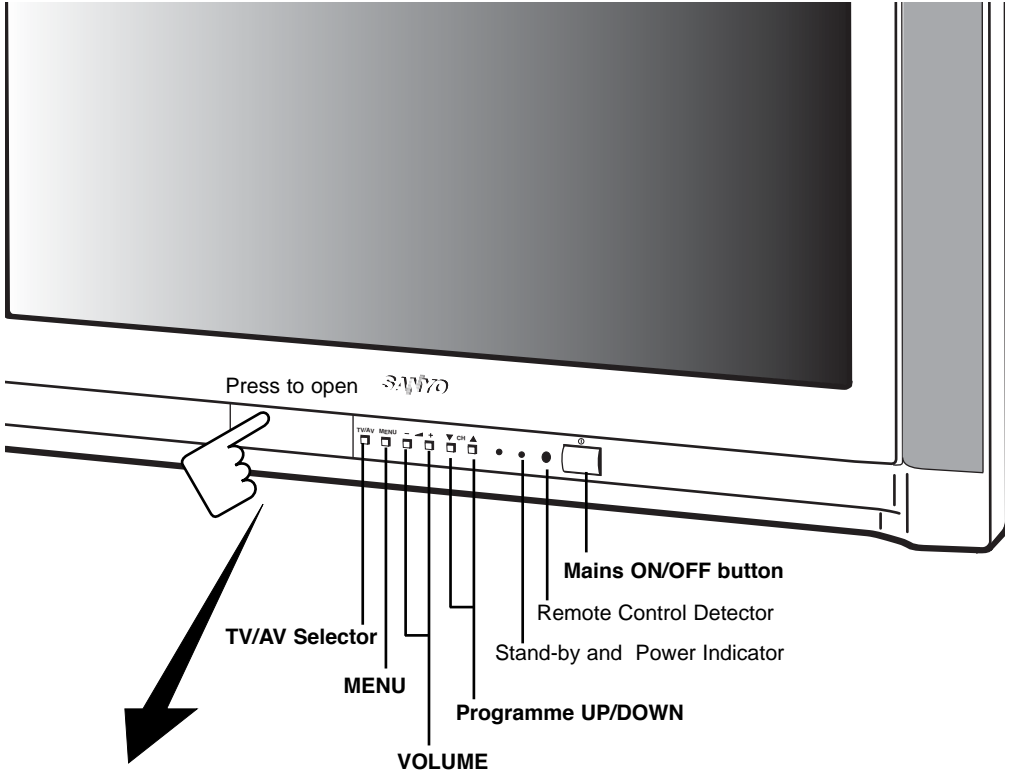
2 Press the **MENU** button after completing Plug & Play to return to the normal TV mode.

✎ This procedure only appears at the first switch-on time.

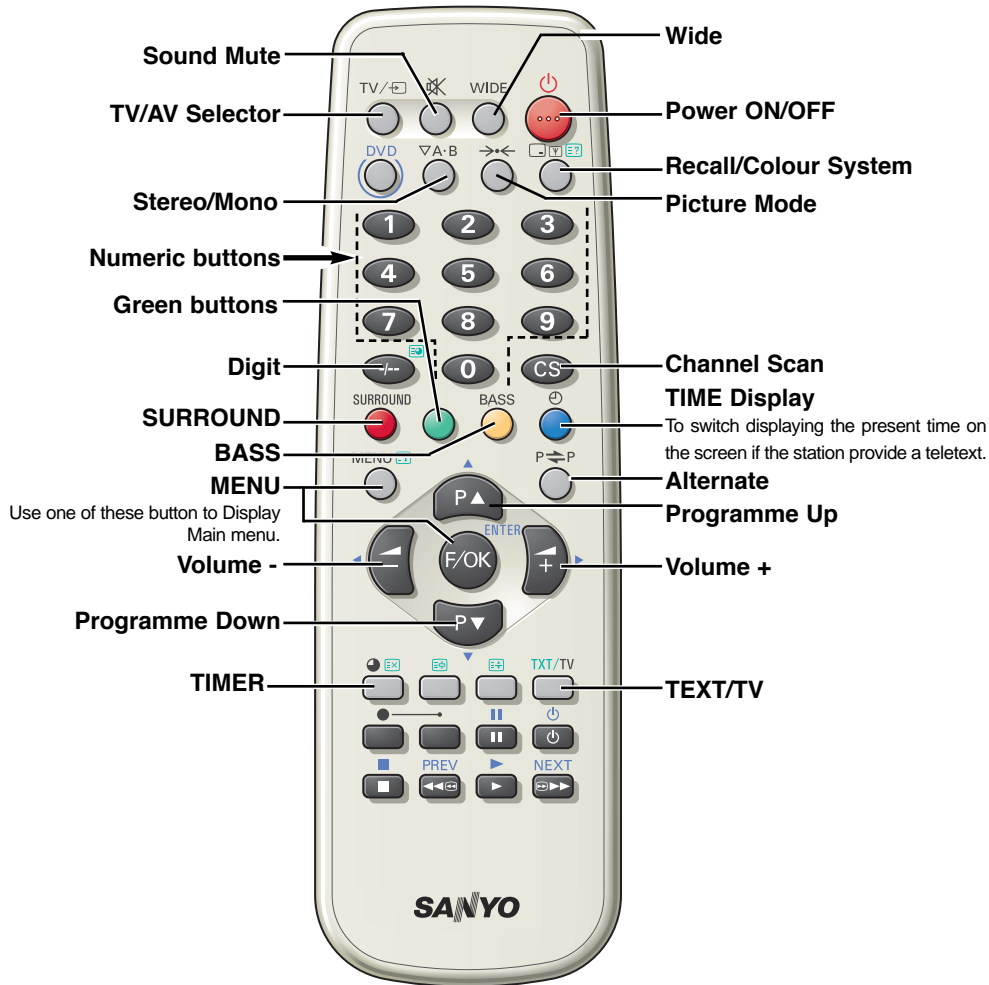
Now the installation is completed !

Control Panel

Each button on the control panel has the same function with its counterpart on the remote control



Remote Control



To Install Batteries Into the Remote Control

1. Remove the battery compartment cover.
2. Insert two size AA batteries (1.5 V) according to "+" and "-" polarity markings inside the battery compartment.
3. Close the battery compartment cover.

NOTE:

When remote control doesn't work in normal or stable condition, or it can't control operation of the TV set, replace the batteries. (exhausted batteries may leak substance detrimental to the remote control, replace them immediately when they are weak.)

General Operation

Power ON/OFF(Stand by)



Press the **Power ON/OFF** button to turn on or off (Stand-by) the TV set.

Lighting of the Stand-by and Power Indicator shows that there is a power supply. For shutting off a power supply completely, disconnect the power cord from the power outlet.

You can turn on the TV in the standby mode by pressing the following button in addition to the **Power ON/OFF** button.

- **Programme Up/Down** button of the remote control transmitter or the TV set.
- **1 to 9, 0** button on the remote control transmitter.

Auto Shut Off Function

This TV set changes to the standby mode within 10 minutes after all broadcasts have ended.

Direct Programme Selection

Example:

- Press **6** button to select programme position 6.

6

- To select programme position 27, press the **Digit** button, press **0, 2** then **7** button.

0 2 7

- To select programme position 215, press the **DIGIT** button, press **2, 1** then **5** button.

2 1 5

Programme Up and Down



To select the next or previous programme position.

Volume Control



To increase or decrease the sound volume Level.

TV/AV Selector



Press repeatedly to switch to TV, AV1, AV2 or DVD/AV3 (VIDEO) mode.

6

Sound Mute



Should you wish to mute the sound, (e.g. While talking on the telephone) press the **Sound Mute** button. To switch the sound back on, press this button again (or press the **Volume +** or **-** button).

Alternate



Press the **Alternate** button, and the programme position will alternately select the previous position and the present position.

Bass Expander On/Off



Press the **BASS** button to get an emphasised bass sound.

Picture Mode Selection



Press the **Picture Mode** button repeatedly to select the following picture modes;

PERSONAL : Your personal preference mode.

DYNAMIC: Suitable for brightly lit room.

NATURAL: Normal viewing mode.

ECO: Suitable for dimly lit room and gives a cinema-like effect.

GAME: Picture mode that is gentle on the eyes, suitable for TV game.

Active 3D Surround



This TV provides an incredible 3 Dimensional Surround sound effect.

Press the **SURROUND** button to select the following modes.

SURROUND OFF:

To cut off 3D surround effect.

SURROUND 1:

Gives the middle 3D surround effect.

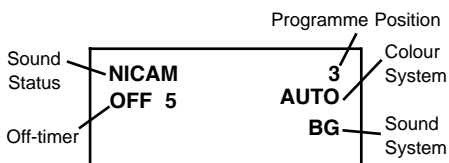
SURROUND 2:

Gives the deep 3D surround effect.

Programme Information Call




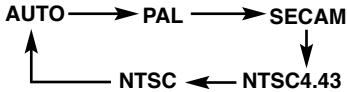
To display the on screen indication, press the **Recall/Colour System** button.



General Operation

Colour System Selection

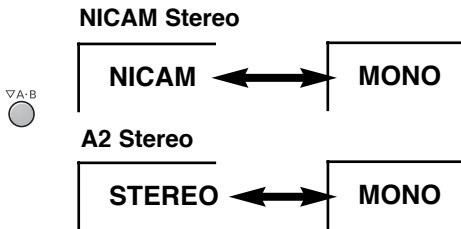
 If the clear picture cannot be obtained, press the **Recall/Colour System** button repeatedly until optimum image can be produced.



A2 Stereo, NICAM Stereo and Bilingual Broadcast Receiving

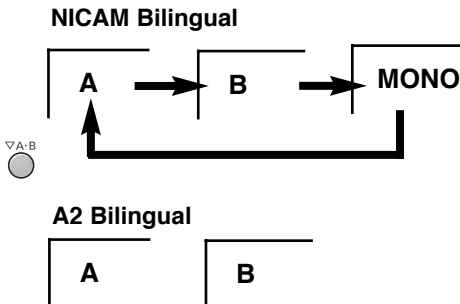
■ A2 Stereo and NICAM Stereo sound reception

When receiving NICAM stereo broadcast, **NICAM** will be displayed on the screen. For A2 (German) stereo broadcasts, **STEREO** will be displayed. When a clear stereo sound can not be obtained during NICAM or A2 (German) stereo broadcast due to poor signal reception, press the **Stereo/Mono** button to select mono mode.



■ Bilingual reception

If the TV receives bilingual programs, the TV initially selects language A and displays "A" on the screen briefly. If you want to switch to language B or MONO (only available in NICAM reception), press the **Stereo/Mono** button.



Channel Scan

Press the **CHANNEL SCAN** button to search for a programme. The channel positions are automatically scanned, and the channel scanning will stop at the position where it began. To stop at the position you want, press this button again.



Screen Mode Selection

Today there are various transmission formats with different size ratios, e.g. 4:3, 14:9, 16:9 and video format such as letterbox. 4:3 picture sometimes have a black band at the top and bottom of the screen. You can select a screen mode to optimise the picture display.

Press the Wide button to select the following screen modes:



Auto / Full / Natural / Zoom 14:9 / Title-in 14:9 / Zoom 16:9 / Title-in 16:9 / Normal

■ WSS (Wide-Screen-Signalling)





This function is to be automatically set to the optimum screen mode for the wide screen television according to the aspect ratio bits of the picture format (16:9, 14:9, 4:3, etc.) on the receiving signal source. To use this function, the picture mode should be selected to the "Auto" mode. This function is also effective in the AV mode. When you connect AV equipment which has the **WSS** function, the screen mode is automatically selected to the optimum screen mode.

■ Auto





It automatically switches to the optimum screen mode according to the **WSS** signal provided in the receiving signal source. If the signal does not have it, the TV keeps current screen mode. This setting may cause the picture to change when a different format is received e.g. when an advert is received.

General Operation (Screen Mode Selection)





■ Natural Wide

4:3	14:9	16:9	Letterbox Video
			
Stretches the picture horizontally to fill the screen, the picture is more stretched at the edges.	The height is expanded to fill the whole screen.	The picture fills the screen and is proportionally correct.	The black bars top and bottom remain and the height is compressed to fit into the picture area.





■ Zoom (14:9)

4:3	14:9	16:9	Letterbox Video
			
The correct picture width is maintained but the top and bottom are cropped.	Zooms in slightly cropping the top and bottom.	Zooms in slightly cropping the top and bottom.	The black bars top and bottom are smaller and the picture height is compressed slightly.

■ Title-In (14:9)





4:3	14:9	16:9	Letterbox Video
			
As zoom (14:9), but bottom is compressed even more to allow subtitles to be seen.	As zoom (14:9), but bottom is compressed even more to allow subtitles to be seen.	As zoom (14:9), but bottom is compressed even more to allow subtitles to be seen.	As zoom (14:9), but bottom is compressed even more to allow subtitles to be seen.

■ Zoom (16:9)





4:3	14:9	16:9	Letterbox Video
			
The correct picture width is maintained but the top and bottom are cropped.	Zooms in slightly cropping the top and bottom.	Zooms in slightly cropping the top and bottom.	The black bars top and bottom are smaller and the picture height is compressed slightly.

General Operation (Screen Mode Selection)





■ Title-In (16:9)

4:3	14:9	16:9	Letterbox Video
			
As Zoom (16:9), but bottom is compressed even more to allow subtitles to be seen.	As Zoom (16:9), but bottom is compressed even more to allow subtitles to be seen.	As Zoom (16:9), but bottom is compressed even more to allow subtitles to be seen.	As Zoom (16:9), but bottom is compressed even more to allow subtitles to be seen.

■ Full

4:3	14:9	16:9	Letterbox Video
			
The whole screen is filled stretching the width.	The whole screen is filled stretching the height slightly at the edges.	The whole screen is filled with the correct picture ratio.	The black bars top and bottom are present and the height is compressed.

■ Normal

4:3	14:9	16:9	Letterbox Video
			
The correct ratio is maintained with black bars on the left and right.	Black bars left and right, picture height is stretched.	Black bars left and right, picture height is stretched.	Black bars left, right, top and bottom.

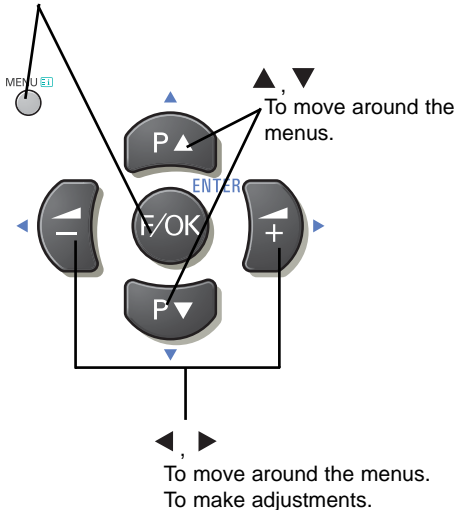
Menu Operation

The on-screen menu provides the viewer with easy access to adjustments and settings.

MAIN MENU	
SOUND	▷
PICTURE	▷
SETTING	▷
PRESET	▷

- During the menu operation, the following buttons are used.

MENU (Use one of these button to Display Main menu.)
To call up the menu.
To go back and to exit the menu.



Sound Adjustments

- 1 Press the **MENU** button to display main menu, and "SOUND" will be selected first.

MAIN MENU	
SOUND	▷
PICTURE	▷
SETTING	▷
PRESET	▷

- 2 Press ◀ or ▶ to display "SOUND" menu.

- 3 Select an item with ▲ or ▼ .

SOUND	
VOLUME	18
BALANCE	0
BASS	41
TREBLE	37
AUTO VOLUME	ON
SOUND PRESET	PERSONAL
SURROUND	2
BASS EXPANDER	ON

- 4 Press ◀ or ▶ to adjust.

- **BALANCE** :
Left and Right speaker volume balance adjustment.
- **SOUND PRESET** (Sound Mode Selection):
Enable to select the suitable sound adjustment (PERSONAL, MUSIC, TALK, NORMAL). Also possible to select directly with the Sound Mode button.
Note: Your sound adjustment will be memorized to "PERSONAL" of the Sound preset automatically.
- **SURROUND** :
Enable to select active 3D surround modes (**SURROUND OFF**, 1 or 2). Also possible to select directly by pressing the **SURROUND** button of the remote control.
- **AUTO VOLUME** (ON/OFF) :
This function automatically equates the sound volume of each position. It is used to prevent the sharp volume change when you change the channel.

- 5 Press the **MENU** button repeatedly to exit.

Picture Adjustments

- 1 Press the **MENU** button, then select "PICTURE" with ▼ .
- 2 Press ◀ or ▶ to display "PICTURE" menu.

MAIN MENU	
SOUND	▷
PICTURE	▷
SETTING	▷
PRESET	▷

Menu Operation

- 3 Select an item with ▲ or ▼ .

PICTURE	
BRIGHTNESS	18
CONTRAST	42
COLOUR	27
SHARPNESS	30
TINT	0
SKIN TONE	ON
PICTURE PRESET	PERSONAL
TEXT BRIGHTNESS	

- 4 Press ◀ or ▶ to adjust.

• **TINT :**

Adjust colour tints. (Displayed only on NTSC signal reception.)

• **PICTURE PRESET**

(Picture Mode Selection) : Enable to select the suitable picture adjustment (PERSONAL, DYNAMIC, NATURAL, ECO, GAME). Also possible to select directly with the Picture Mode button.

• **SKIN TONE (ON/OFF):**

The Skin Tone correction locally changes the hue of colours that match skin tones to the correct hue.

• **TEXT BRIGHTNESS :**

Brightness of teletext screen.

:Minimum :Center :Maximum

- ✍ Your picture adjustment will be memorized to "PERSONAL" of the Picture preset automatically.

- 5 Press the **MENU** button repeatedly to exit.

Setting Menu

■ Off Timer

- 1 Press the **MENU** button, then select "SETTING" with ▼ .

MAIN MENU	
SOUND	▶
PICTURE	▶
SETTING	▶
PRESET	▶

- 2 Press ◀ or ▶ to display "SETTING" menu, and "TIMER" will be selected first.

SETTING	
TIMER	▶
OSD LANGUAGE	ENGLISH
TEXT LANGUAGE	ENGLISH
AV3	DVD
PROGRAM SWAP	▶
CHILD LOCK	OFF

- 3 Press ◀ or ▶ to display "TIMER" menu, and "OFF TIMER" will be selected first. Select a desired time by pressing ◀ or ▶ .

TIMER	
OFF TIMER	OFF
ON TIMER	00:00
ON PROGRAM	27

The off-timer will increase or decrease in 5 minutes steps when ◀ or ▶ is pressed. The maximum time is 120 minutes (2 hours).

To cancel the OFF TIMER, select OFF position by pressing the ◀ or ▶ .

- 4 Press the **MENU** button repeatedly to exit.

- ✍ To check the remaining time whilst the TV is operating, press the **RECALL/COLOUR SYSTEM** button.
 ✍ The OFF TIMER cancels when the TV set is turn off or if a power failure occurs.

■ On Timer

The ON TIMER will switch-on from the standby mode or change programme position when the selected time has elapsed.

- 1 Follow step 1~2 of the setting OFF-TIMER above.

SETTING	
TIMER	▶
OSD LANGUAGE	ENGLISH
TEXT LANGUAGE	ENGLISH
AV3	DVD
PROGRAM SWAP	▶
CHILD LOCK	OFF

Menu Operation

- Press **▲** or **▼** to select **ON TIMER**. Enter numbers of desired time period directly by pressing **NUMERIC** button, with maximum time period are 24:00 hours.

TIMER	
OFF TIMER	OFF
ON TIMER	00:00
ON PROGRAM	27

The desired time period also could be entered by pressing **◀** or **▶**. The on-timer will increase or decrease in 10 minutes steps when **◀** or **▶** is pressed. The maximum time is 24 hours.

- Select **ON PROGRAM** by pressing **▲** or **▼**. Press the **◀** or **▶** or **NUMERIC** button to enter **ON PROGRAMME** position number.

TIMER	
OFF TIMER	OFF
ON TIMER	00:00
ON PROGRAM	27

- Press the **MENU** button repeatedly to exit.

- ✍ To cancel the **ON TIMER**, set to 00:00 position by pressing the **NUMERIC** button or **◀** or **▶**.
- ✍ If the TV is already switched on when the time set for the **ON TIMER** has been reached, only the programme position will be changed to the set programme position.

Quick Tips

To display **TIMER** menu directly, press **TIMER** button on the remote control.

TIMER	
OFF TIMER	OFF
ON TIMER	00:00
ON PROGRAM	27

TIMER menu adjustment (OFF TIMER, ON TIMER, ON PROGRAM), read OFF TIMER and ON TIMER explanation above.

■ Channel Swapping

Use the channel swapping feature to swap the channels between two stored programme positions. this feature is particularly useful after automatic tuning.

- Press the **MENU** button, then select "SETTING" with **▼**.
- Press **◀** or **▶** to display "SETTING" menu.
- Select "PROGRAM SWAP" with **▲** or **▼**.

SETTING	
TIMER	▶
OSD LANGUAGE	ENGLISH
TEXT LANGUAGE	ENGLISH
AV3	DVD
PROGRAM SWAP	▶
CHILD LOCK	OFF

- Press **◀** or **▶** to display **PROGRAM SWAP**.

For example, to swap the channel between programme position "7" and "12".

- Select programme position "7" by pressing **◀**, **▶**, **▲** or **▼**. Then press the **Green** button on the remote control.

PROGRAM SWAP		
1	7	13
2	8	14
3	9	15
4	10	16
5	11	17
6	12	18

▲▼◀▶ ■ SWAP		

- Select programme position "12" using **◀**, **▶**, **▲** or **▼**. And press the **Green** button on the remote control.

PROGRAM SWAP		
1	7	13
2	8	14
3	9	15
4	10	16
5	11	17
6	12	18

▲▼◀▶ ■ SWAP		
7 AND ...		

- Press the **MENU** button to return to the normal TV mode.

Menu Operation

■ OSD (On Screen Display) Language

There are 7 languages (ENGLISH, FRENCH, RUSSIAN, PORTUGUESE, INDONESIAN, PERSIAN, ARABIC) for TV's OSD (On-Screen Display) language that could be chosen.

- 1 Press the **MENU** button, then select "SETTING" with ▼ .
- 2 Press ◀ or ▶ to display "SETTING" menu.
- 3 Select "OSD LANGUAGE" with ▲ or ▼ .

SETTING	
TIMER	▶
OSD LANGUAGE	ENGLISH
TEXT LANGUAGE	ENGLISH
AV3	DVD
PROGRAM SWAP	▶
CHILD LOCK	OFF

- 4 Press ◀ or ▶ to choose OSD LANGUAGE.
- 5 Press the **MENU** button repeatedly to exit.

■ Child Lock

This function is used to prevent small children from operating the TV with the front buttons of the TV set.

- 1 Press the **MENU** button, then select "SETTING" with ▼ .
- 2 Press ◀ or ▶ to display "SETTING" menu.
- 3 Select "CHILD LOCK" with ▲ or ▼ .

SETTING	
TIMER	▶
OSD LANGUAGE	ENGLISH
TEXT LANGUAGE	ENGLISH
AV3	DVD
PROGRAM SWAP	▶
CHILD LOCK	OFF

When the CHILD LOCK is selected, VOLUME +/- (◀ or ▶) button on the Front Control of TV set could not be operated. Set this function ON or OFF position by pressing ◀ or ▶ on the remote control.

- 4 Press the **MENU** button repeatedly to return to the normal TV mode.

Menu Operation

Preset Menu

Up to 251 broadcast stations in your reception area can be stored.

There are following ways of channel tuning.

Automatic Tuning:

To automatically search and store all receivable channels.

Manual Tuning:

To manual search and fine tune existing channels.

■ Automatic Tuning

- 1 Press the **MENU** button, then select "PRESET" menu with \blacktriangledown .

MAIN MENU	
SOUND	▶
PICTURE	▶
SETTING	▶
PRESET	▶

- 2 Press \blacktriangleleft or \blacktriangleright to display "PRESET" menu, and "AUTO TUNING" will be selected first.

PRESET	
AUTO TUNING	▶
POSITION	1
FREQUENCY	271.65 MHz
SYSTEM	AUTO
SIF	BG
AFC	ON
SKIP	OFF
MEMORY	--

- 3 Press \blacktriangleleft or \blacktriangleright to start Automatic tuning. After completing Auto tuning, the TV set automatically returns to programme position "1".

Automatic tuning can be cancelled at any time by pressing the **MENU** button.

- 4 Press the **MENU** button repeatedly to exit.

■ Manual Tuning

- 1 Select "POSITION" from the PRESET menu. And select programme position where you wish to preset a channel using the "0-9", - , -- , \blacktriangleleft or \blacktriangleright buttons.

PRESET	
AUTO TUNING	
POSITION	7
FREQUENCY	271.65 MHz
SYSTEM	AUTO
SIF	BG
AFC	ON
SKIP	OFF
MEMORY	--

- 2 Select "FREQUENCY".

PRESET	
AUTO TUNING	
POSITION	7
FREQUENCY	271.65 MHz
SYSTEM	AUTO
SIF	BG
AFC	ON
SKIP	OFF
MEMORY	--

3 You can either...

- a) Enter the frequency using the 0-9 buttons referring channel table.

PRESET	
AUTO TUNING	
POSITION	7
FREQUENCY	⑥---.---MHz
SYSTEM	AUTO
SIF	BG
AFC	ON
SKIP	OFF
MEMORY	--

- b) Press and hold \blacktriangleleft or \blacktriangleright button until frequency starts scanning (about 5 seconds), scanning will stop when a channel is found.

- c) Fine Tuning

Press and release \blacktriangleleft or \blacktriangleright repeatedly to re-tune the frequency.

Menu Operation

- When the picture is not clear, change the colour system.

To change the colour system;

Select "SYSTEM" with ▲ or ▼ , and select a correct colour system with ◀ or ▶ .

- When the sound is not clear or no sound is produced, change the sound system.

To change the sound system;

Select "SIF" with ▲ or ▼ , and select a correct sound system with ◀ or ▶ .

- 4 Select "MEMORY" and press ◀ or ▶ to store your preferred channel.

PRESET	
AUTO TUNING	
POSITION	7
FREQUENCY	677.25 MHz
SYSTEM	AUTO
SIF	BG
AFC	ON
SKIP	OFF
MEMORY	OKI

Repeat above for other programme position if required.

- 5 Press the **MENU** button repeatedly to exit.

Note:

AFC (Automatic Frequency Control) of PRESET menu is usually set "ON". It will automatically fine tune.

Setting of the Skip Channels

If there are positions you do not use, by setting skip channel function, it is possible to jump over any position when you are selecting a channel using the **CH ▲ CH ▼** button.

- 1 Select "POSITION." from the PRESET menu. And select programme position where you wish to skip using the "0-9", **-/-**, ◀ or ▶ button.

PRESET	
AUTO TUNING	
POSITION	7
FREQUENCY	271.65 MHz
SYSTEM	AUTO
SIF	BG
AFC	ON
SKIP	OFF
MEMORY	--

- 2 Select "SKIP" in the PRESET menu, and press ◀ or ▶ to set SKIP "ON".

PRESET	
AUTO TUNING	
POSITION	7
FREQUENCY	271.65 MHz
SYSTEM	AUTO
SIF	BG
AFC	ON
SKIP	ON
MEMORY	--

To cancel the setting of skip, set SKIP "OFF".

- 3 Select "MEMORY" and press ◀ or ▶ to set "OK" to store the skip setting.

PRESET	
AUTO TUNING	
POSITION	7
FREQUENCY	271.65 MHz
SYSTEM	AUTO
SIF	BG
AFC	ON
SKIP	ON
MEMORY	OKI

- 4 Press the **MENU** button repeatedly to return to the normal TV mode.

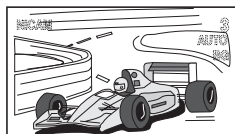
Private Position / Hotel Mode / VCR(DVD) Controls

Private Position Setting

Private Position is used to restrict of programme position that you do not want others to watch.

How to Set the Private Position

- 1 Select a programme position that you want to set in private position.
- 2 Press and hold the **Recall/Colour System** button for more than 2 seconds.



- 3 Press the **MENU** button.



Canceling of the Private Position

To watch the programme of private position, cancel the setting of private position .

- 1 Select private position.
- 2 Press and hold the **Recall/Colour System** button for more than 2 seconds.
- 3 Press the **MENU** button.

Hotel Mode Setting

The Hotel Mode is a feature that might be needed by a hotel management to confine the TV that put in the hotel room, so it will not disturb other rooms.

HOTEL MODE (ON/OFF):

It is used to activate or inactivate all of the hotel mode setting. Also, channel preset is prohibited when the hotel mode is set on.





MAX. VOLUME:

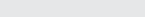

Setting the limit of maximum sound volume.





START PROGRAM:

Setting for the start up programme position.

Setting Procedure

- 1 Press and hold the **Menu**  button on the remote control and press the **Programme Up** button on the TV set to display the Hotel Mode menu.
- 2 Select "MAX. VOLUME" with the **Programme Down** () button, and set maximum volume with the **Volume +/-** ( or ) button.











HOTEL	
HOTEL MODE	OFF 
MAX. VOLUME	37 
START PROGRAM	8

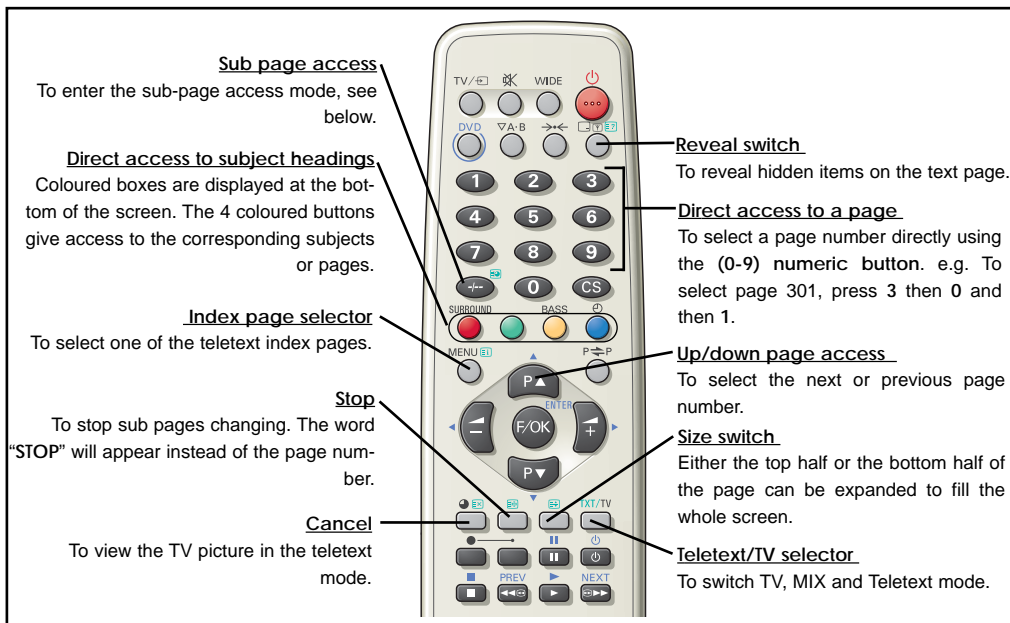
- 3 Select "START PROGRAM" and set start up position with  or  . To set AV position as a start up position, press the **TV/AV Selector**.
- 4 After complete the settings, select "HOTEL MODE", and set it "ON" with  or  .
- 5 Press the **MENU** button to return to the normal TV mode.

VCR(DVD) Controls

This remote control transmitter has been designed to be used in conjunction with selected SANYO VCR's and DVD players. Some SANYO VCR's and DVD players may have their own functions, so please refer to the individual instruction booklet when using this remote control to ensure compatibility.

Some of the keys are used for both the VCR and DVD player. The symbols indicated with blue are for the keys to control the DVD player. When use the DVD player with this remote control, first press and hold the **DVD button** and then press your desired control button each time.

	VCR	DVD
	Power	Power
	Play	Play
	Pause	Pause
	Stop	Stop
	Fast/Cue	Next chapter selection
	Rewind/Review	Previous chapter selection
	Record, press both button at same time.	n/a
	n/a	DVD command mode selection
	n/a	Enter
	n/a	Cursor selection



Selection of Teletext Language

- 1 Press the **MENU** button, then select "SETTING" with **▼**.
- 2 Press **◀** or **▶** to display "SETTING" menu.
- 3 Select "TEXT LANGUAGE" with **▲** or **▼**.

PERSIAN

SETTING	
TIMER	▶
OSD LANGUAGE	ENGLISH
TEXT LANGUAGE	ENGLISH
AV3	DVD
PROGRAM SWAP	▶
CHILD LOCK	OFF

Teletext Brightness Level

Brightness of teletext screen.

☉ :Minimum ☉ :Center ☉ :Maximum

- 1 See Picture Adjustment in Setting Menu.
- 2 Select TEXT BRIGHTNESS with **▲** or **▼**.

PICTURE	
BRIGHTNESS	18 <input type="text"/>
CONTRAST	42 <input type="text"/>
COLOUR	27 <input type="text"/>
SHARPNESS	30 <input type="text"/>
TINT	0 <input type="text"/>
SKIN TONE	ON
PICTURE PRESET	PERSONAL
TEXT BRIGHTNESS	☉

- 4 Press **◀** or **▶** to choose TEXT LANGUAGE.
- 5 Press the **MENU** button repeatedly to exit.
- 3 Press **◀** or **▶** to adjust TEXT BRIGHTNESS.
- 4 Press the **MENU** button repeatedly to exit.

■ Sound Volume Control in Teletext Mode

In teletext mode, sound volume and sound muting can be controlled. However they are not displayed on the screen

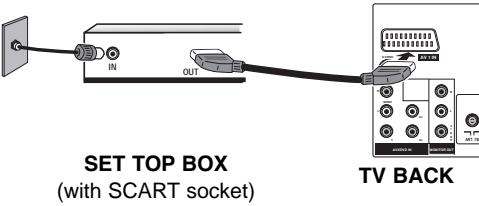
■ Teletext Reception

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

Connection Other Equipment

Connection of Front AV1 Scart Terminal

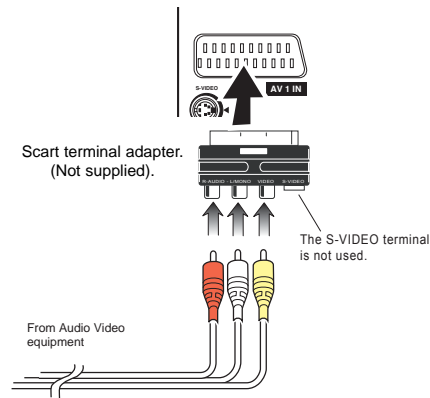
■ Cable with Set Top Box and TV



■ Connection of AV1 Scart Terminal

Use Scart terminal adapter to connect Audio and Video (AV) Equipment output terminal with AV1 scart terminal adapter on TV set.

Note : Scart terminal adapter is not supplied.



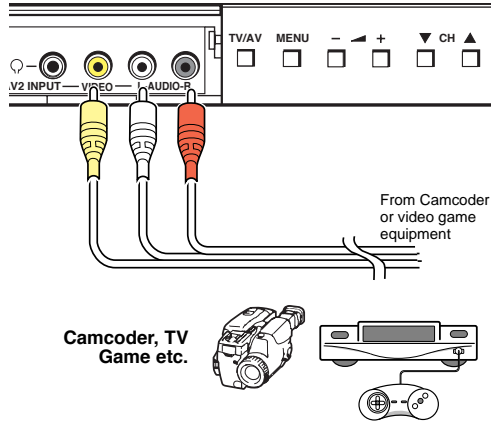
✎ For AV1 S-VIDEO Terminal in Scart Adapter is no function.

Connection of Front AV2 Input Terminal

This TV provides one pair of AV input terminal on the front panel. It is very convenient for use as a game or camcorder connection.

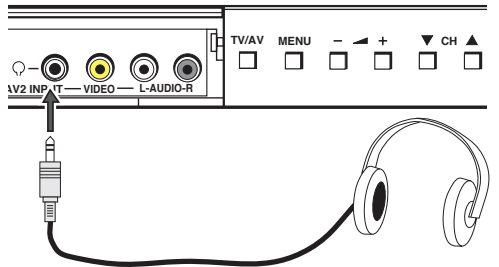
- 1 Connect an RCA cable from the front AV terminal (AV2) to a camcorder or to game equipment.
- 2 Press the **TV/AV** button repeatedly to select the AV2 mode.

✎ For monaural units, connect the sound cable to the L-socket.



■ Use of Headphone

The 3.5mm mini-stereo jack socket located behind the door of the TV can be used for headphone. When the headphone are inserted the sound from the TV speakers is muted.



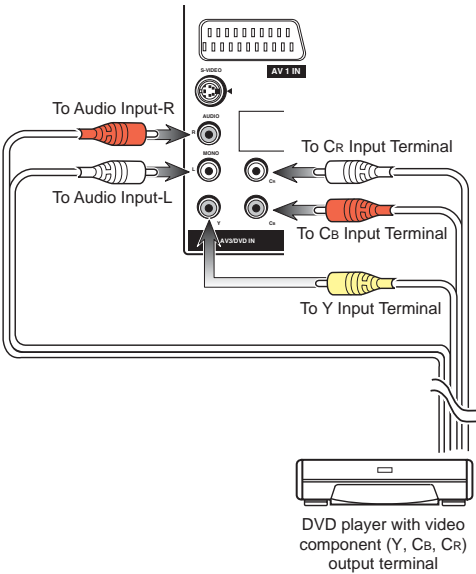
Connection of Rear AV3 Input Terminal

You may connect the audio and video output terminals of the DVD player or VIDEO recorder to the input terminals of the TV set to enjoy the DVD and VIDEO programs.

Connection Other Equipment

■ Connecting to a DVD Player with Video Component Video Output Terminal (Y, C_b or C_r).

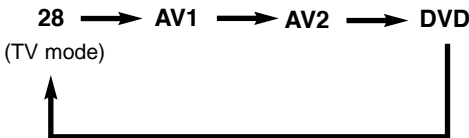
Connect the component output terminal on your DVD player to the component video input terminal of this product, you will be able to enjoy higher quality picture than that received when common video terminal or S-VIDEO terminal is used. (NOTE: When a signal of Y,C_b,C_r/Y,P_b,P_r is received, the output signal from monitor output terminal will not be corresponding.)



■ Make sure the component video terminal (Y, C_b or C_r) is connected correctly.

■ To watch a program in this connection status, select DVD.

In this connection status, whenever the TV/AV button is pressed, the mode will change as follows:



IMPORTANT!: The AV3 must be set on DVD status. To set in DVD status see explanation below.

■ DVD Status Setting.

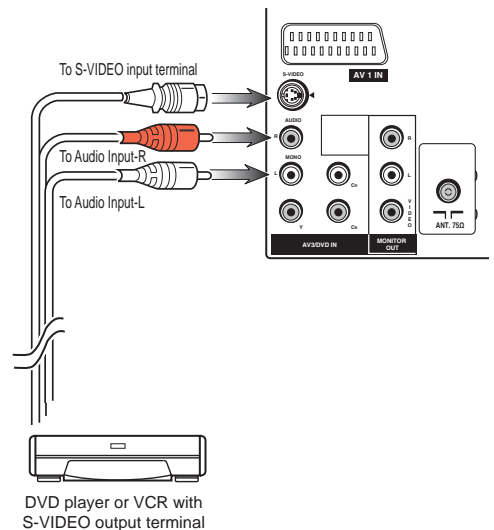
- 1 Press the **MENU** button, then select "SETTING" with ▼ .
- 2 Press ◀ or ▶ to display "SETTING" menu. Then Select "AV3" with ▲ or ▼

SETTING	
TIMER	▶
OSD LANGUAGE	ENGLISH
TEXT LANGUAGE	ENGLISH
AV3	DVD
PROGRAM SWAP	▶
CHILD LOCK	OFF

- 3 Select AV3 option in VIDEO mode or DVD mode with ◀ or ▶ .
- 4 Press the **MENU** button repeatedly to return to the normal TV mode.

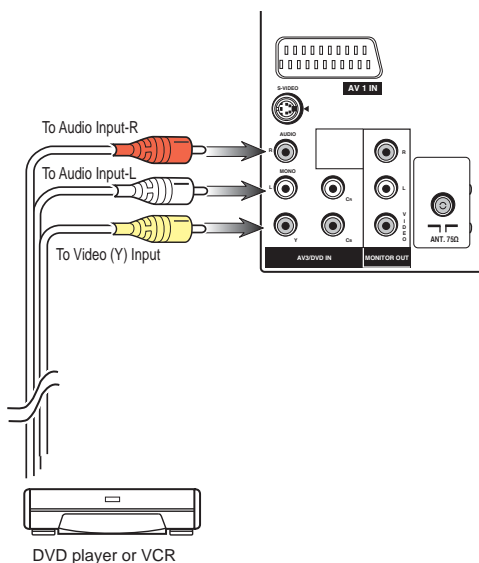
■ Connecting to a DVD Player with S-VIDEO Terminal

If you want to use a VCR which is equipped with the S-VHS capability to obtain the best performance, you should connect the S-Terminal of AV3 and select the "VIDEO" mode in the "AV3 Option" (see "DVD status setting" in this page).



Connection Other Equipment

- Connecting to a Player without Video Component Video Output Terminal (Y, Cb or Cr).



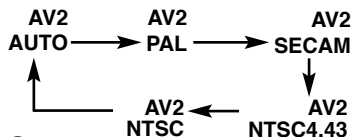
- ✓ To watch program by this connection select "VIDEO" mode in AV3 setting, or for further information about this setting see "DVD Status Setting" on page 19.
- ✓ Input from S-VIDEO terminal is prior to that from AV3 (Y) video composite terminal. When S-VIDEO terminal is used, video input from the AV3 (Y) video composite terminal will be disabled. When the AV3 (Y) video composite input terminal is to be used, the S-VIDEO terminal shall be unplugged.

Colour System Selection



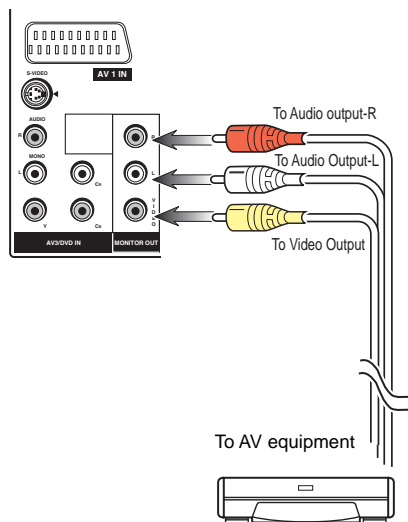
Depending on the type of video tape or connected AV equipment being used, it may be necessary to select colour system. In this case, press the **RECALL/COLOUR SYSTEM** button and select a suitable colour system.

Each time the **RECALL/COLOUR SYSTEM** button is pressed, colour system is changed as follow;



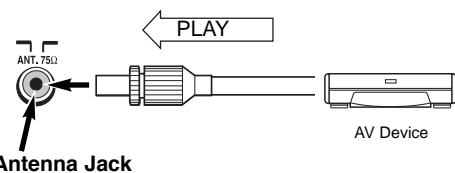
Use of AV Output Jacks

Monitor output terminal outputs signal of picture currently playing. It may be used to record TV program or reproduce video program received from connection with AV input terminal.



- To record a TV program, select channel desired in TV mode.
- To reproduce a video program input from the AV1 input terminal, select AV1.

Connecting to a AV Device with TV Antenna Jack



Antenna Jack

AV device can be connected to the antenna jack of the TV set.

To watch programs input from the antenna jack, operate as follows:

- (1) Start on the AV device to play the program.
- (2) Select the channel position desired, and start MANUAL tuning. (See page 14-15).

See instruction manuals of the relevant AV devices for details of connection and adjustment.

Spesification

Power source	AC 220-240V 50/60Hz
Television system	System B/G, D/K, I, M/M
Colour system	PAL/SECAM/NTSC4.43 on air (Automatic colour system selection) PAL/SECAM/NTSC4.43/NTSC3.58 in AV mode
Channel coverage	VHF: 0-11, 5A (Australia) 1-11, (New Zealand) UHF: 28-69 (Australia) 21-69 (New Zealand) CATV: S1-S41, X, Y, Z, Z+1, Z+2
Aerial input impedance	75ohm
Rear AV Input Terminal	
AV1	<u>CENELEC Standard</u> Input: Composite video, Video Composite and audio-L/R
AV3	<u>Phone Jack</u> : Video Component (Y, C _B , C _R) input and Audio-L/R input. <u>S-Video Input</u> : Din 4 pin x 1 (Separated Y/C Signals Input)
Front AV Input Terminal	
AV2	<u>Phone Jack</u> : Video input and Audio-L/R input.
Rear Monitor Output Terminal	<u>Phone Jack</u> : Video monitor output and Audio-L/R monitor outputs.
Headphone jack	Mini Stereo jack X 1
Speaker	5 cm x 12 cm x 2 pcs.
Sound Output (RMS)	5W + 5W
Picture tubes (inches)	28
Dimensions (WxHxD mm)	774 x 491 x 508
Weight	approx. 36.6Kg

Specifications subject to change without notice.

Helpful hints

■ NO PICTURE, NO SOUND

- Check if TV is plugged in.
- Try a different channel, if OK, probably station trouble.

■ POOR PICTURE, SOUND OK

- Adjust BRIGHTNESS control.
- Adjust FINE TUNING control.
- Check aerial connections

■ NO COLOUR, PICTURE OK

- Adjust COLOUR control.
- Adjust FINE TUNING control.
- Is the programme in colour ?

■ WEAK PICTURE

- Check aerial connections on back of set.
- Check aerial for broken wires.
- Re-orient aerial.

■ The following faults are not caused by the receiver:

"GHOSTS"

Reflections of signals from mountains or high buildings will cause multiple images, called "Ghosts". These abnormal conditions can be reduced to minimum by repositioning aerial or by installing a new one suited for your area.

"INTERFERENCE"

Interference may be caused by electrical appliances, car ignition systems, etc. This should normally be a temporary condition, but should this interference persist, contact your dealer.

Part No. 1AA6P1P4987-A F8WF-A (FB1-B)

SANYO

SANYO ELECTRIC Co., Ltd.