



**Instruction Manual**



**Colour Television**

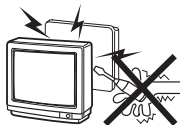


**CA21KF3  
CA29KF31  
CA29EF3D  
CP29EF3**

- FLAT SCREEN
- Multi System
- CATV Hyper band
- 251 Programmes With Automatic Tuning
- Surround Sound System
- Digital NICAM stereo

## 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.

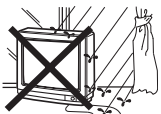


Do not drop or push objects into the television cabinet slots or openings.



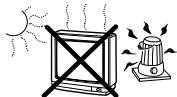
Never spill any kind of liquid on the television receiver.

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



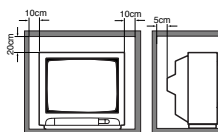
## Caution

Avoid exposing the television receiver to direct sunlight and other source of the heat.



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.

Minimum distances



Do not block the ventilation holes in the back cover.

Adequate ventilation is essential to prevent failure of electrical components.



## Specifications

**Power Source** AC110-240 Volts, 50/60Hz

**Colour System** PAL/SECAM/NTSC4.43/NTSC3.58

**Sound System** B/G, I, D/KK', M/M

**Channel Coverage**

VHF: E2-E12, A2-A13, R1-R12, J1-J12, K1-K9 // 0-11, 5A(AUS), 1-11(NZ)

UHF: 21-69, A14-A69, J13-J62 // 28-69(AUS)

CATV: S1-S41, X, Y, Z, Z+1, Z+2

**Aerial input impedance** 75  $\Omega$

**Audio output (RMS)** Model CA29KF31; Main: 5W + 5W // Woofer: 10W (max)

Model CA29EF3D, CP29EF3; Main: 10W + 10W

Model CA21KF3; Main: 7W + 7W

**Speakers**

Model CA21KF3 : 8 cm x 13 cm x 2 pcs.

Model CA29KF31 : Main : 8 cm x 13 cm x 2 pcs.

S. Woofer :  $\phi$  10cm.

Tweeter :  $\phi$  5cm x 2 pcs.

Model CA29EF3D, CP29EF3: 6 cm x 12 cm x 2 pcs.

**Ext. terminals**

Input Terminal

AV1 (Video): Composite Video input

S-Video (Y/C Separate) DIN Jack Input

AV1 (Audio): L/R Stereo Input

AV2 (Video): Composite Video input

AV2 (Audio): L/R Stereo Input

AV3 or DVD (Video): Composite/Component Y, CB, CR input

AV3 or DVD (Audio): L/R Stereo Input

Output Terminal

Video Monitor Output x 1

Audio Monitor Output: L/R Stereo x 1

Stereo Headphone: Mini Stereo Jack x 1

**Dimensions**

Model CA21KF3: 652(W) X 460(H) X 490(D) mm

Model CA29KF31: 816(W) X 583(H) X 504(D) mm

Model CA29EF3D, CP29EF3: 750(W) X 581(H) X 497(D) mm

**Net weight**

Model CA21KF3: Approx. 23.2 Kg

Model CA29KF31: Approx. 46.7 Kg

Model CA29EF3D, CP29EF3: Approx. 47.5 Kg

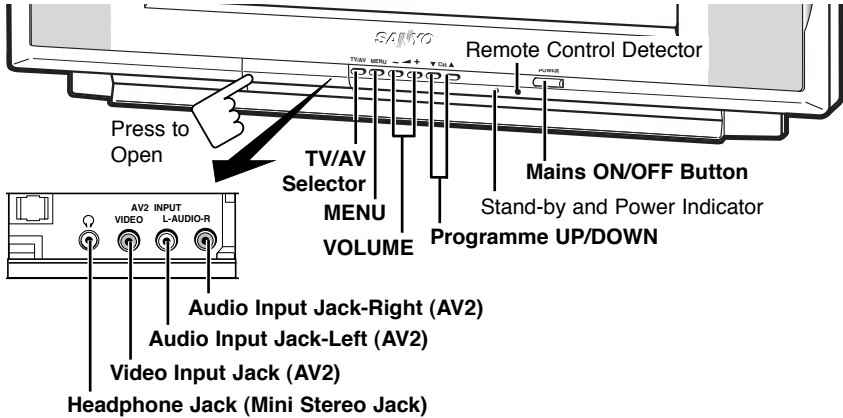
Specification subject to change without notice

# Plug & Play

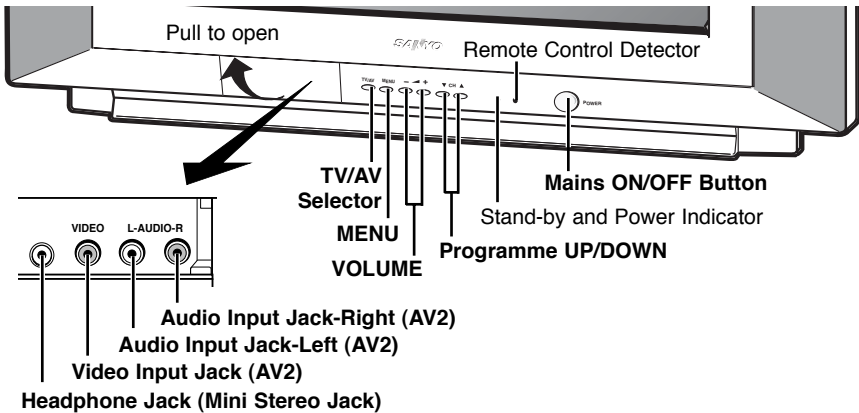
## Front Control

Each button listed this section has the same function as it's corresponding button on the Remote Control

Model CA21KF3, CA29KF31



Model CP29EF3, CA29EF3D



Let's start !

By PLUG & PLAY, when the TV set is powered on for the first time, it will automatically search and preset all the receivable TV channels.

- 1 Plug the power cord, connect the antenna, and press the MAINS ON/OFF button on the control panel, the TV set will search and store of all available TV channels automatically.

THANK YOU FOR PURCHASING YOUR  
SANYO TV.  
NOW I AM SEARCHING  
ALL PROGRAMMES. PLEASE WAIT.



AUTO SET-UP COMPLETED.  
HAPPY VIEWING!

- 2 After Auto-Tuning in the PLUG & PLAY mode was finished, press MENU button to return to the normal TV mode.

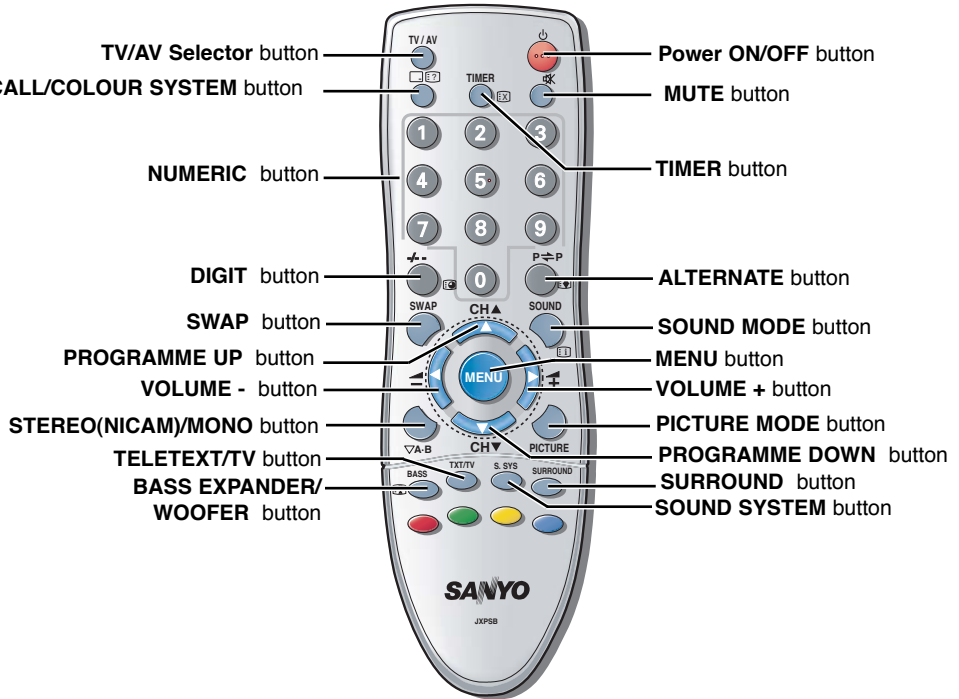
# Plug & Play/General Operation

- If no TV station channels are found, the TV set will show the message below. Check if the antenna is connected properly.

**NO STATION.  
PLEASE CONNECT ANTENNA PLUG!**

After disconnecting the main power and connecting the antenna properly, turn on the TV set again. The TV set will search of all available TV channels automatically again.

## Remote Control Transmitter



## Battery Installation of the Remote Control Transmitter

1. Open the battery cover.
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:

When Remote Control doesn't work in normal or stable condition, or it can't control operation of the TV set, replace the batteries.

# General Operation

## General use

### Power ON/OFF (Stand by)



Press the **Power ON/OFF** button to turn on or off the TV set.

### Direct Programme Selector



- For direct access to select programmes using (0~9) **NUMERIC** button.



- To select programmes position more than 9, press **DIGIT** button, and then insert programme position number one by one. (Example programme position 17, press digit, press 0, press 1, press 7.)

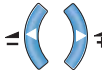


### Programme Up and Down



To select next and previous programme position and also operates as up and down cursor.

### Volume Control



To increase and decrease Volume Level, press **VOLUME +** or **-** buttons.



### Sound Mute



To mute the TV's sound, press **MUTE** button, and to switch the sound back on, press **MUTE** button again, or press **VOLUME +** or **-**.

### Alternate



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

### Picture Mode



Select Picture Mode to suit picture type you are watching, by pressing **PICTURE MODE** button. Each time **PICTURE MODE** button is pressed, the picture setting changes as follow; PERSONAL, DYNAMIC, NATURAL, ECO, GAME.

### Auto Shut Off Function

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

### STEREO (Nicam)/MONO



By pressing the **STEREO (NICAM)/MONO** button repeatedly, you can select the sound track L/L (left), R/R (right), or L/R from the equipment connected to the AV terminal.

### Woofers/Bass Expander



Press the **Bass Expander/Woofers** button to switch this function ON or OFF.

### Surround



Press the **SURROUND** button to switch this function on SURROUND : 1, SURROUND : 2 or SURROUND : OFF position.

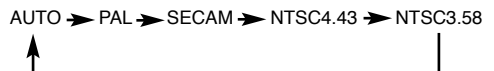
### Recall/Colour System

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



This button also used to select colour system mode, if the poor quality picture is being received.

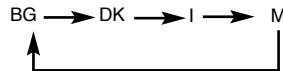
By pressing the **RECALL/COLOUR SYSTEM** button repeatedly, the colour system mode will be changed as follow;



### Sound System



If the sound that is being received is of poor quality, change the sound system mode by pressing **SOUND SYSTEM** button.



### Sound Mode



Select Sound Mode to suit sound type you are listening, by pressing **SOUND MODE** button. Each time **SOUND MODE** button is pressed, the picture setting changes as follow; PERSONAL, MUSIC, TALK, NORMAL.

# Menu Operation

This TV set had many features that you can access in the Main Menu. Press **MENU** button to adjust available features in the Main Menu display.

**SOUND** : For sound adjustment.

**PICTURE** : For Picture adjustment.

**SETTING** : For setting-up your television features.

**PRESET** : To tune in new channel.



## Sound Menu

The Sound Menu functions are making possible to obtain the best sound setting for your environment.

**VOLUME** : Volume adjustment function (0 ~ 63).

**BALANCE** : Left/Right speaker volume balance adjustment) (-32 ~ 0 ~ 31).

**BASS** : Bass adjustment function (0 ~ 63).

**TREBLE** : Treble adjustment function (0 ~ 63).

**SOUND PRESET** :

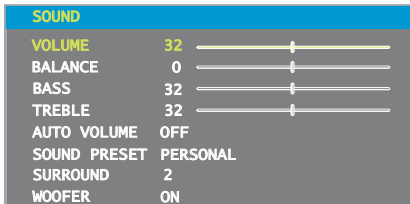
Enable to select the suitable sound adjustment (PERSONAL, MUSIC, TALK, NORMAL).

**SURROUND** : Surround operation function (1, 2, OFF)

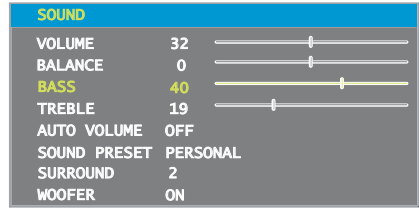
**WOOFER** : Woofer operation function (OFF, ON). (For model CA29KF31 only)

**BASS EXPANDER** : Bass Expander operation function (OFF, ON). (For model CA21KF3, CA29EF3D, CP29EF3 only)

- 1 Press the **MENU** button for main menu display.
- 2 Press the **VOLUME +/-** to enter to Sound Menu display.



- 3 Press the **PROGRAMME UP/DOWN** button to select desired sound menu functions. To adjust the desired sound menu functions press **VOLUME +/-** button.



### NOTE:

Your sound adjustment will be memorized to PERSONAL of the SOUND PRESET automatically.

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

## Picture Menu

The Picture Menu functions are making possible to obtain the best picture setting for your environment.

**BRIGHTNESS** : brightness adjustment function (0 ~ 63).

**CONTRAST** : Contrast adjustment function (0 ~ 63).

**COLOUR** : Colour adjustment function (0 ~ 63).

**SHARPNESS** : Sharpness adjustment function (0 ~ 63).

**TINT** : Colour phase if NTSC equipment signal is detected (-32 ~ 0 ~ 31).

**SKIN TONE** :

The Skin Tone correction locally changes the hue of colours that match skin tones to the correct hue (ON, OFF).

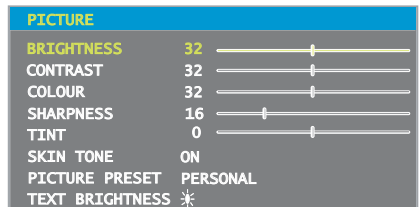
**PICTURE PRESET** :

Enable to select the suitable picture adjustment (PERSONAL, DYNAMIC, NATURAL, ECO, GAME), or also possible to select directly by pressing PICTURE MODE button (see page. 5).

**TEXT BRIGHTNESS** :

Brightness of teletext screen (\* (minimum), \* (centre), \* (maximum)).

- 1 Press the **MENU** button for main menu display. Then Press the **PROGRAMME UP/DOWN** button to select PICTURE.
- 2 Press the **VOLUME +/-** to enter to Picture Menu display.



# Menu Operation

- 3 Press the **PROGRAMME UP/DOWN** button to select desired picture menu functions. To adjust the desired picture menu functions press **VOLUME +/-** button.

## NOTE:

Your sound adjustment will be memorized to PERSONAL of the PICTURE PRESET automatically.

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

## Setting Menu

### Off Timer

The Off Timer will switch the TV into Standby mode when the selected time has elapsed.

- 1 Press the **MENU** button for main menu display. Then press the **PROGRAMME UP/DOWN** button to select SETTING.

MAIN MENU	
SOUND	▶
PICTURE	▶
SETTING	▶
PRESET	▶

- 2 Press the **VOLUME +/-** to enter to the Setting Menu display. Then press **PROGRAMME UP/DOWN** button to select OFF TIMER. And then press **VOLUME +/-** to enter to OFF TIMER display.

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

- 3 Select a desired time by pressing VOLUME +/- button.

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

The off-timer will increase or decrease in 5 minutes steps when **VOLUME +/-** button is pressed. The maximum time is 120 minutes (2 hours).

To cancel the OFF TIMER, select OFF position by pressing the **VOLUME +/-** button.

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

✓ 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.
- 2 Press **PROGRAMME UP/DOWN** button 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	15:33
ON PROGRAM	27

✓ When ON-TIMER has been activated and the TV still in TV mode, stand-by and power indicator changes to yellow. When TV in the stand-by mode and ON-TIMER is activated, stand-by and power indicator changes to orange.

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

- 3 Select ON PROGRAM by pressing **PROGRAMME UP/DOWN** button. Press the **VOLUME +/-** button or **NUMERIC** button to enter ON PROGRAMME position number.

TIMER	
OFF TIMER	OFF
ON TIMER	15:33
ON PROGRAM	27

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

# Menu Operation

- ✓ To cancel the **ON TIMER**, set to 00:00 position by pressing the **NUMERIC** button or **VOLUME +/-** button.
- ✓ 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.

## OSD Language

There are 6 languages (ENGLISH, FRENCH, RUSSIAN, INDONESIAN, PERSIAN, ARABIC) for TV's OSD (On-Screen Display) language that could be chosen.

- 1 Press the **MENU** button for main menu display. Then Press the **Programme UP/DOWN** button to select **SETTING**.

MAIN MENU	
SOUND	▶
PICTURE	▶
SETTING	▶
PRESET	▶

- 2 Press the **VOLUME +/-** to enter to Setting Menu display. Press **Programme UP/DOWN** button to select **OSD LANGUAGE**. Choose the language by pressing **VOLUME +/-** button.

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

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

## AV3 Option

Use this function to set AV3 for DVD or VIDEO function.

- 1 Press the **MENU** button for main menu display. Press the **Programme UP/DOWN** button to select **SETTING**.
- 2 Press the **VOLUME +/-** to enter in Setting Menu display. Press **Programme UP/DOWN** button to select AV3 option. Choose the AV3 option (DVD or VIDEO) by pressing **VOLUME +/-** button.

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

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

## 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 for main menu display. Then press the **PROGRAMME UP/DOWN** button to select **SETTING**.
- 2 Press the **VOLUME +/-** to enter to Setting Menu display. Then press **PROGRAMME UP/DOWN** to select **CHILD LOCK**. When the **CHILD LOCK** is selected, **VOLUME +/-** buttons on the Front control can not be used. Set this function ON or OFF position by pressing **VOLUME +/-** button on the remote control.

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

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



# Menu Operation

## Preset Menu

The preset Menu can be used to tune new channels, to re-order channels and their programme position, and to make fine adjustments to the tuning.

There are three ways to tune in the new channels:

**AUTO** : Searches for all channels and stores them automatically.

**SEMI** : Manual search to add channels.

**DIRECT FREQUENCY SETTING**: Simply by input number of frequency directly.

### AUTO-tuning

- 1 Press the **MENU** button to display Main Menu. Then press the **PROGRAMME UP/DOWN** button to select PRESET.

MAIN MENU	
SOUND	▶
PICTURE	▶
SETTING	▶
PRESET	▶

- 2 Press the **VOLUME +/-** to enter to PRESET Menu display.

PRESET	
AUTO TUNING	▶
POSITION	7
FREQUENCY	471.25 MHZ
SYSTEM	AUTO
SIF	BG
AFC	ON
SKIP	OFF
MEMORY	--

- 3 Press **VOLUME +/-** button to start AUTO TUNING.

PRESET	
AUTO TUNING	BUSY
POSITION	1
FREQUENCY	471.25 MHZ
SYSTEM	AUTO
SIF	BG
AFC	ON
SKIP	OFF
MEMORY	--

To cancel this tuning operation, press the **MENU** button.

- 4 Press the **MENU** button repeatedly to return to the normal TV mode.  
After all receivable channels have been found and have been stored automatically, the TV set automatically returns to programme position "1".

### SEMI-tuning

- 1 Select a Programme channel where it will be entered a programme.
- 2 Press the **MENU** button for main menu display. Then press the **PROGRAMME UP/DOWN** button to select PRESET.

MAIN MENU	
SOUND	▶
PICTURE	▶
SETTING	▶
PRESET	▶

- 3 Press the **VOLUME +/-** to enter to PRESET Menu display. Press **PROGRAMME UP/DOWN** button to select FREQUENCY.

PRESET	
AUTO TUNING	
POSITION	7
FREQUENCY	471.25 MHZ
SYSTEM	AUTO
SIF	BG
AFC	OFF
SKIP	OFF
MEMORY	--

- 4 Press the **VOLUME +/-** more than 3 seconds to search for required TV station. Once a station is located, tuning will automatically stop.

PRESET	
AUTO TUNING	
POSITION	7
FREQUENCY	677.25 MHZ
SYSTEM	AUTO
SIF	BG
AFC	ON
SKIP	OFF
MEMORY	--

- 5 Select SIF by pressing **PROGRAMME UP/DOWN** button, if the sound system is poor. To get an optimal sound system (BG, DK, I, M), press **VOLUME +/-** button.

PRESET	
AUTO TUNING	
POSITION	7
FREQUENCY	677.25 MHZ
COLOUR SYSTEM	AUTO
SIF	BG
AFC	ON
SKIP	OFF
MEMORY	--

# Menu Operation

- 6 Select MEMORY to store your preferred channels by pressing **PROGRAMME UP/DOWN** button and then press **VOLUME +/-** button to set it "OK".

PRESET	
AUTO TUNING	
POSITION	7
FREQUENCY	677.25 MHZ
COLOUR SYSTEM	AUTO
SIF	BG
AFC	ON
SKIP	OFF
MEMORY	OK!

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

## Direct Frequency Setting-Tuning

- 1 Follow step 1-3 of the SEMI-tuning (Semi automatic tuning).
- 2 Enter the numbers of the channels frequency by pressing **NUMERIC** button.

PRESET	
AUTO TUNING	
POSITION	7
FREQUENCY	7-- ,--- MHZ
COLOUR SYSTEM	AUTO
SIF	BG
AFC	ON
SKIP	OFF
MEMORY	--

- ✓ The number of frequency that you are entered, must be equal with the numbers of Broadcast transmission's frequency.

- 3 Select SIF by pressing **PROGRAMME UP/DOWN** button, if the sound system is poor. To get an optimal sound system (BG, DK, I, M), press **VOLUME +/-** button.

PRESET	
AUTO TUNING	
POSITION	7
FREQUENCY	677.25 MHZ
COLOUR SYSTEM	AUTO
SIF	BG
AFC	ON
SKIP	OFF
MEMORY	--

- 4 Select MEMORY to store your preferred channels by pressing **PROGRAMME UP/DOWN** button and then press **VOLUME +/-** button.

PRESET	
AUTO TUNING	
POSITION	7
FREQUENCY	677.25 MHZ
COLOUR SYSTEM	AUTO
SIF	BG
AFC	ON
SKIP	OFF
MEMORY	OK!

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

## SKIP

When there is a position you do not use, by setting SKIP channel function it is possible to jump over this position, when you are selecting a channel using the **PROGRAMME UP/DOWN** button.

- 1 Select Programme channel that want to skip.
- 2 Press the **MENU** button for main menu display. Press the **PROGRAMME UP/DOWN** button to select PRESET.
- 3 Press the **VOLUME +/-** to enter PRESET Menu display. Press **PROGRAMME UP/DOWN** button to select SKIP and then press **VOLUME +/-** button to set it at ON position.

PRESET	
AUTO TUNING	
POSITION	8
FREQUENCY	471.25 MHZ
COLOUR SYSTEM	AUTO
SIF	BG
AFC	ON
SKIP	ON
MEMORY	--

- ✓ To cancel the SKIP channels, set the SKIP at OFF position

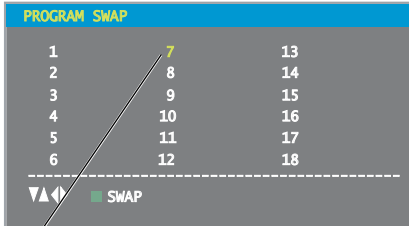
- 4 To store this setting select MEMORY by pressing **PROGRAMME UP/DOWN** button and then press **VOLUME +/-** button to set it "OK".
- 5 Press the **MENU** button repeatedly to return to the normal TV mode.

# Channel Swapping/TELETEXT

## Channel Swapping

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

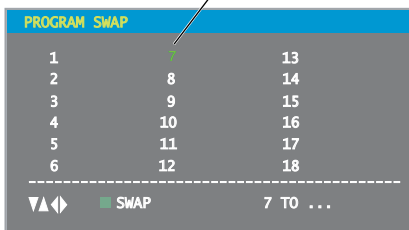
- 1 Press **SWAP** button.



Present programme position.

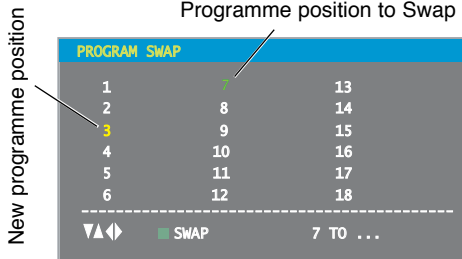
- 2 Select programme position that you wish to swap by pressing **PROGRAMME UP/DOWN** button or **VOLUME +/-** button (for example, swap programme position 7 ). Then press **green** button on the remote control to lock the programme position that you wish to swap.

Present programme position.



- 3 Select the new programme position number (for example, programme position "3") by pressing **PROGRAMME UP/DOWN** button or **VOLUME +/-** button. To complete this operation press **green** button.

Programme position to Swap



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

## Selection of teletext language

- 1 Press the **MENU** button to display Main Menu. Press the **PROGRAMME UP/DOWN** button to select **SETTING**.



- 2 Press the **VOLUME +/-** to enter Setting Menu display. Press **PROGRAMME UP/DOWN** button to select **TEXT LANGUAGE**. Select the "PERSIAN", "ENGLISH" by pressing **VOLUME +/-** button.



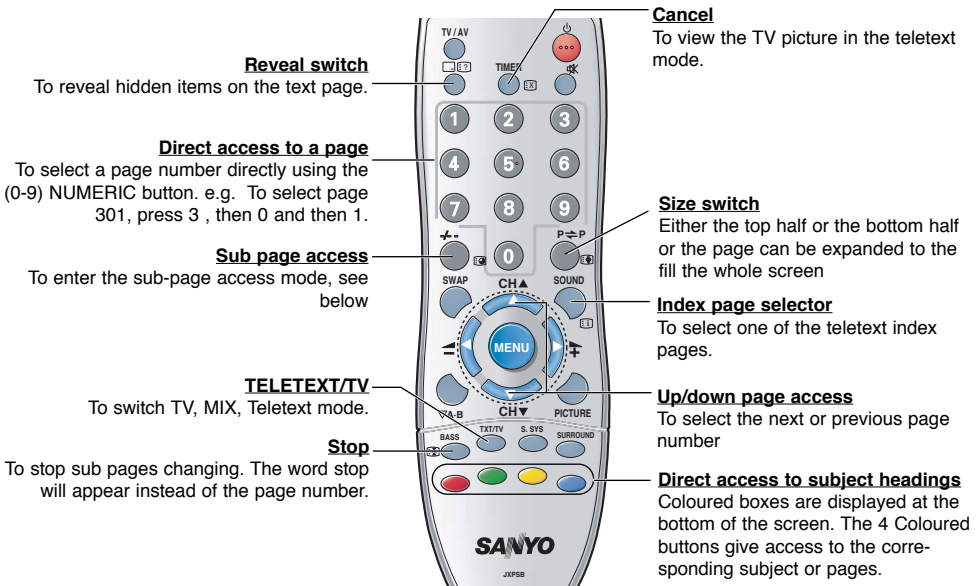
- 3 Press the **MENU** button repeatedly to return to the normal TV mode.

## Teletext brightness level

You can not control the picture and the teletext brightness in the teletext mode. You must first switch back to the TV mode and then adjust the picture control or set the teletext brightness level.

- 1 Press the **MENU** button to display Main Menu. Press the **PROGRAMME UP/DOWN** button to select **PICTURE**.
- 2 Press the **VOLUME +/-** to enter Setting Menu display. Press **PROGRAMME UP/DOWN** button to select **TEXT BRIGHTNESS**. Choose \* (minimum), \* (centre), \* (maximum) by pressing **VOLUME +/-** button.





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

- ✓ To confirm the selected teletext brightness level, switch to the teletext mode by pressing the **TELETEXT/TV** button.

## Sound Volume Control

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

## Operation

### Sub page access

With a text page selected which has sub pages, you may wish to read a known sub page number.

- 1 Press the **EX** button in the teletext mode. "S ----" will be displayed on top of the screen.
- 2 Enter the sub page number using the (0-9) NUMERIC buttons. e.g.. 0004.
- 3 Press the **EX** button to return the normal TV picture. Immediately when the entered sub-coded page is reached the page number will appear on the TV picture.
- 4 Press the **TELETEXT/TV** button to view the sub-coded page.

### Up dated pages

Some text pages are updated such as latest sports scores or traffic news. Select a latest page.

- 1 Press the **EX** button in the teletext mode to view the TV picture. When the page is updated the page number will appear over the normal TV picture.
- 2 Press the **TELETEXT/TV** button to view the updated page.

- ✓ If the page has sub pages the number will appear when the sub page is changed.

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

# Menu Operation/Others Menu

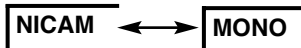
## A2 Stereo, NICAM and Bilingual

### ■ A2 Stereo and NICAM Stereo

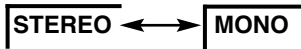
When receiving NICAM stereo Broadcast, "NICAM" will be displayed on the screen. For A2 (German) stereo broadcast, "STEREO" will be displayed. When a clear stereo sound can not be obtained during NICAM or A2 (German) due to poor signal reception, press the **A/B** Button to select **MONO** mode.



### NICAM Stereo



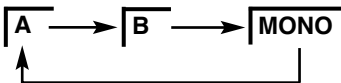
### A2 Stereo



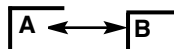
### ■ Bilingual

If the TV receives bilingual programme, the TV initially select language A and display "A". If you want to switch to language B or **MONO** (only available in NICAM reception), press the **A/B** button.

### NICAM Bilingual



### A2 Bilingual



## Hotel Mode

The feature that need by a Hotel Management. To confine the TV that put in the hotel room, so that will not disturb to another room.

### HOTEL MODE (ON/OFF):

In case of ON, the Hotel Mode is activate, OFF is inactivate.

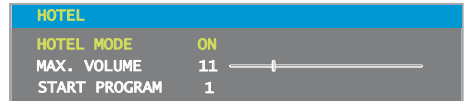
### MAX. VOLUME:

Setting the limit of Volume maximum.

### START PROGRAM:

Setting for the program will start on in the time TV is switch on by **Mains ON/OFF** button on front control or **POWER ON/OFF** button on the Remote Control.

- 1 Press **MENU** button on the Remote Control and the **PROGRAMME UP** button on the Front Control in the same time to display **HOTEL MODE**.
- 2 After complete all of the HOTEL MODE setting, set the HOTEL MODE at **ON POSITION** by pressing **VOLUME +/-** button.



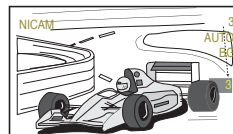
- 3 Press the **MENU** button to return to the normal TV mode.

## Private Position

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 the **RECALL/COLOUR SYSTEM** button more than 2 seconds.



- 3 Then press **MENU** button.



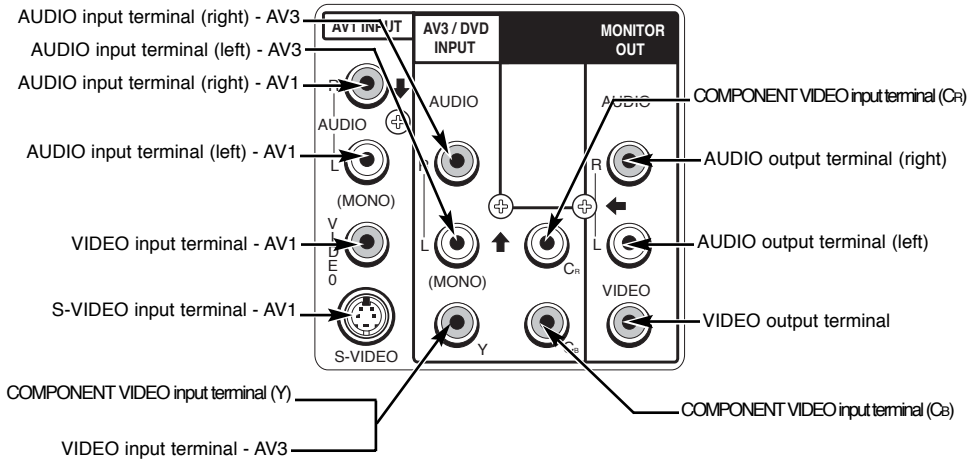
The picture will disappear, this icon and the programme position will be displayed on the screen.

### Cancelling of the Private Position

- 1 Select the Private Position.
- 2 Press **RECALL/COLOUR SYSTEM** button more than 2 seconds.
- 3 Then press **MENU** button.

# Connecting other Equipment

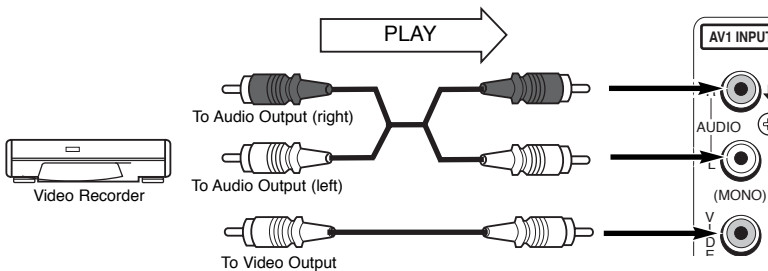
## Rear Terminal Panel



## Connection of the rear AV1 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.

## Connecting to a Monophonic Video Recorder



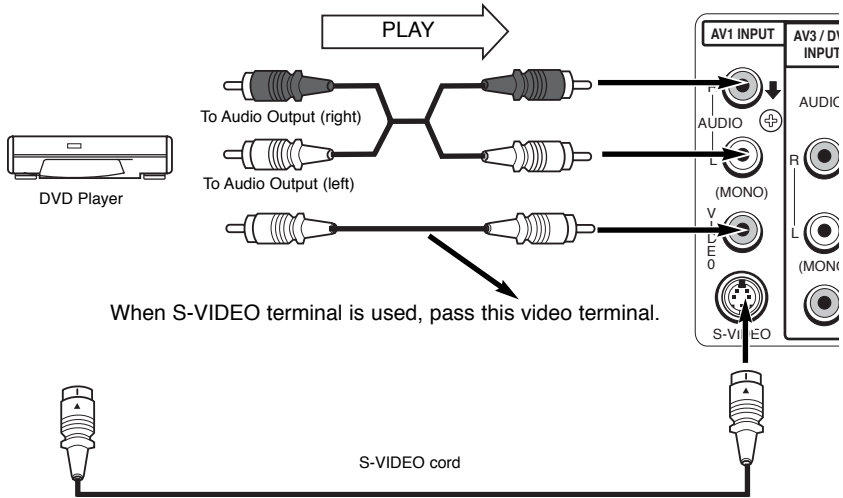
- When a stereo video recorder is connected to the TV set, make sure the audio output terminals are correctly connected to the corresponding L (left) and R (right) audio input terminals.
- When a monophonic video recorder is connected to this product, connect the audio output terminal of the video recorder to the L(left) audio input terminal of the TV set.
- When watching a video program input from the AV1 terminal, press the TV/AV button to select AV1.

Whenever the TV/AV button is pressed, the mode will change as follows:

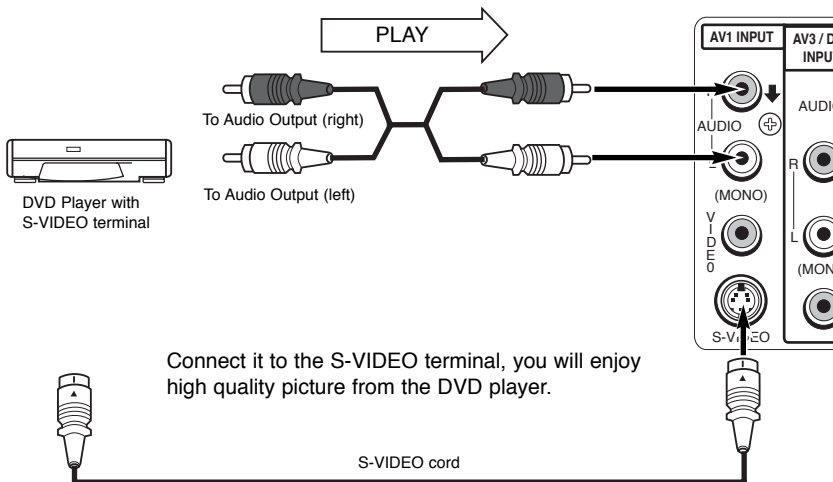


# Connecting other Equipment

- To make sure the colour system of the TV set is consistent with the signal of your video recorder, if necessary, select a matching system. The colour system set in AV mode can be stored automatically.
- When an AV program (from a video recorder or a DVD player) is played, you may return to TV mode by selecting any of the TV position.



## Connecting to a DVD player with S-VIDEO terminal



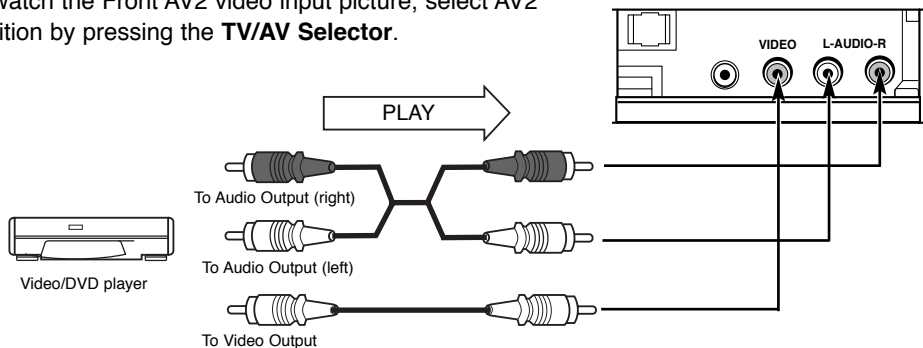
- When watching a video program input from the S-VIDEO terminal, press the TV/AV button to select AV1.
- Input from S-VIDEO terminal is prior to that from AV1 video terminal. When S-VIDEO terminal is used, video input from the AV1 terminal will be disabled. When the AV1 input terminal is to be used, the S-VIDEO terminal shall be unplugged.

# Connecting other Equipment

## Connection of the front AV2 input terminal

It is convenient to use the AV2 input jack on the front panel for equipment that is often connected and disconnected.

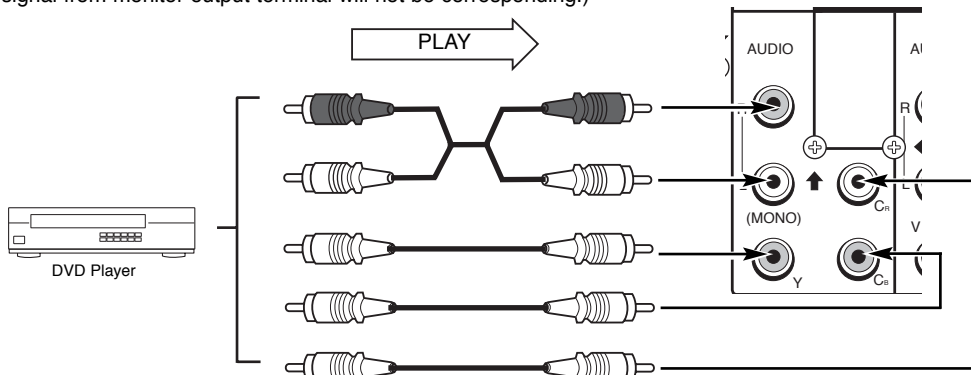
- To watch the Front AV2 video input picture, select AV2 position by pressing the **TV/AV Selector**.



## Connecting to a DVD Player (both used DVD and AV3)

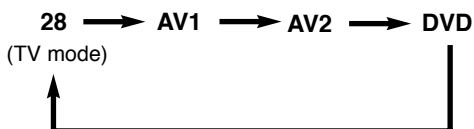
Connecting to a DVD Player with Video Component Video Output Terminal (Y, C<sub>b</sub> or C<sub>r</sub>).

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<sub>b</sub>,C<sub>r</sub>/Y,P<sub>b</sub>,P<sub>r</sub> is received, the output signal from monitor output terminal will not be corresponding.)



- 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:



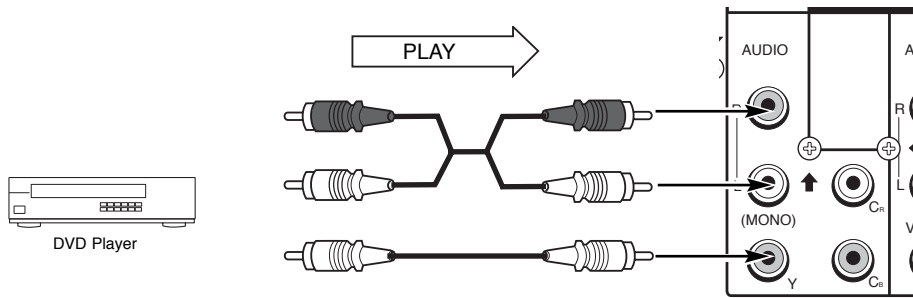
**IMPORTANT!:** The AV3 must be set on DVD status. (see AV3 OPTION on page 8)

- Make sure the component video terminal (Y, C<sub>b</sub> or C<sub>r</sub>) is connected correctly.



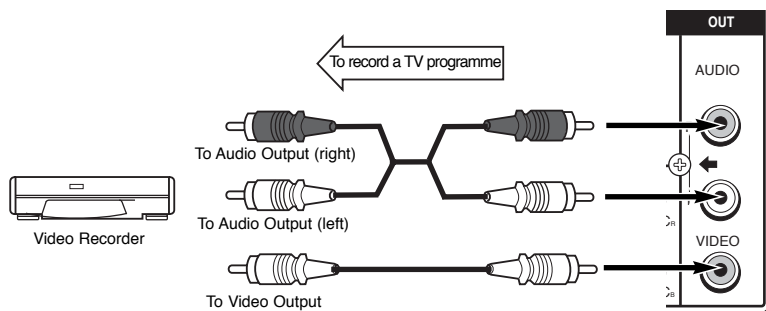
# Connecting other Equipment

Connecting to a Player without Video Component Video Output Terminal (Y, C<sub>b</sub> or C<sub>r</sub>).



## Connecting to Monitor Output Terminal

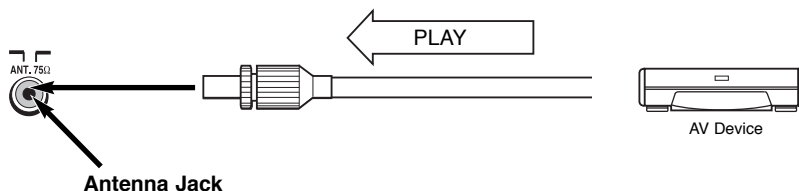
Monitor output terminal outputs signal of picture currently playing. It may be used to record TV program or reproduce video program received from connection with AV input terminal.



- 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

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



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

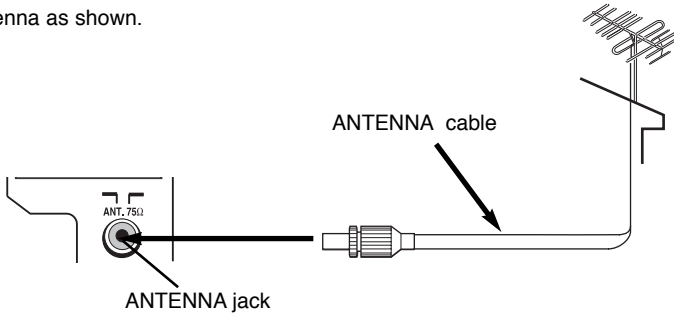
- (1) Start on the AV device to play the program.
- (2) Select the channel position desired, and start SEMI tuning. (See page 9-10).

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

# Connecting of Antenna/Helpful Hints

## Connection of Antenna

Connect the antenna as shown.



In case of any problem of antenna loop, consult the local dealer.

## ■ 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. 1AA6P1P4851- C C5GYC-C (FB1-A)

**SANYO**

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**SANYO ELECTRIC Co., Ltd.**