



# Color Television OWNER'S MANUAL

Please read this manual carefully before operating your set.  
Retain it for future reference.  
Record model number and serial number of the set.  
See the label attached on the back cover and quote this  
information to your dealer when you require service.

# Safety Precautions

**WARNING : TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.**  
**CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER(OR BACK). NO USER-SERVICEABLE PARTS IN SIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.**

**Cleaning**

Unplug this television receiver from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning. Do not use attachments not recommended by the television receiver manufacturer as they may cause hazards.

**Power Supply**

This television receiver should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your television dealer or local power company.

**DISCONNECTING DEVICE FROM MAINS**

- Mains plug is the disconnecting device. The plug must remain readily operable.

**Installation**

Do not use this television receiver near water, for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.

Do not place this television receiver on an unstable cart, stand, or table. The television receiver may fall, causing serious injury to a child or an adult, and serious damage to the appliance.

Use only with a cart or stand recommended by the manufacturer, or sold with the television receiver. Wall or shelf mounting should follow the manufacturer's instructions and should use a mounting kit approved by the manufacturer.

Slots and openings in the cabinet and the back or bottom are provided for ventilation, and to insure reliable operation of the television receiver, and to

protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the television receiver on a bed, sofa, rug, or other similar surface. This television receiver should not be placed in a built-in installation such as a bookcase unless proper ventilation is provided.

It is recommended not to operate this unit near speakers or big metallic furnitures in order to keep their magnetism from disturbing colors purity (uniformity) on the screen.

**Wet Location Marking:**

Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

**Use**

Do not allow anything to rest on the power cord. Do not locate this television receiver where the cord will be abused by persons walking on it.

Do not overload wall outlets and extension cords as this can result in fire or electric shock.

Never push objects of any kind into this television receiver through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock.

Never spill liquid of any kind on the television receiver.

**Service**

Do not attempt to service this television yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified personnel.

**Writing Model And Serial Numbers**

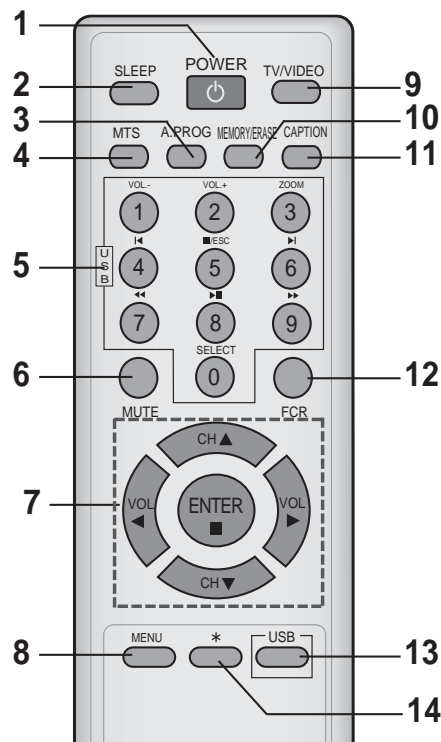
The serial number and model number are found on the back of this unit. The serial number is unique to this unit. You should record requested information here and retain this guide as a permanent record of your purchase. Please retain your purchase receipt as your proof of purchase.

Date of Purchase \_\_\_\_\_  
 Dealer Purchased from \_\_\_\_\_  
 Dealer Address \_\_\_\_\_  
 Dealer Phone No. \_\_\_\_\_  
 Model No. \_\_\_\_\_  
 Serial No. \_\_\_\_\_

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## Description of controls



**1. POWER BUTTON (or ON/OFF )**  
Refer to "Turning on/off the TV".

**2. SLEEP BUTTON**  
To set the desired sleep time.

**3. A. PRGO (Auto program) BUTTON**  
To memorize channels by AUTO PROGRAM.

**4. MTS BUTTON (some models)**  
To listen to the MTS sound.

**5. NUMBER BUTTONS**  
To select the desired channel directly.

**USB SELECT BUTTONS**  
To operate USB function.

**6. MUTE BUTTON**  
To mute the sound. Again to restore the muted sound.

**7. CH UP/DOWN (▲/▼) BUTTONS**

- To select the desired channel.
- To select the desired menu item when menu is displayed on the screen.

**VOLUME UP/DOWN (◀/▶) BUTTONS**

- To increase or decrease volume level.
- To enter or adjust the selected menu when menu is displayed on the screen.

**ENTER (■) BUTTON**

- To exit from the displayed menu.
- To memorize the adjusted menu.
- To recall the current TV mode (by remote control only).

**8. MENU BUTTON**  
To display on-screen or exit from USB mode.  
\* Other local key is not available in USB mode.

**9. TV/VIDEO BUTTON**

To select TV, VIDEO or COMPONENT mode.

**10. MEMORY/ERASE BUTTON (some models)**  
To memorize or erase the desired channel.

**11. CAPTION BUTTON (some models)**  
To select the CAPTION mode.  
Refer to "Closed caption function".

**12. FCR (Favorite Channel Review) BUTTON**  
To select the favorite channel.  
Refer to "Favorite channel memory".

**13. USB BUTTON**  
Enter into or exit from USB mode.

**14. \* : No function.**

**15. STAND BY INDICATOR**

Illuminates red when the TV is in standby mode. Refer to "Turning on/off the TV".

**16. REMOTE CONTROL SENSOR**

### Fitting Batteries in the Remote Control Unit

The remote control is powered by batteries. This requires **AAA** type batteries for operation. To ensure consistent operation, change the batteries about once a year.

**Caution :** Batteries installed incorrectly may leak and damage the remote control. Do not mix old and new batteries or different types of batteries (for example, standard and alkaline).

1. Remove the battery compartment cover by sliding it in the arrowhead direction.
2. Insert new batteries as indicated by the polarity markings (+ and -) inside the compartment.
3. Replace the battery compartment cover.

## On screen menus

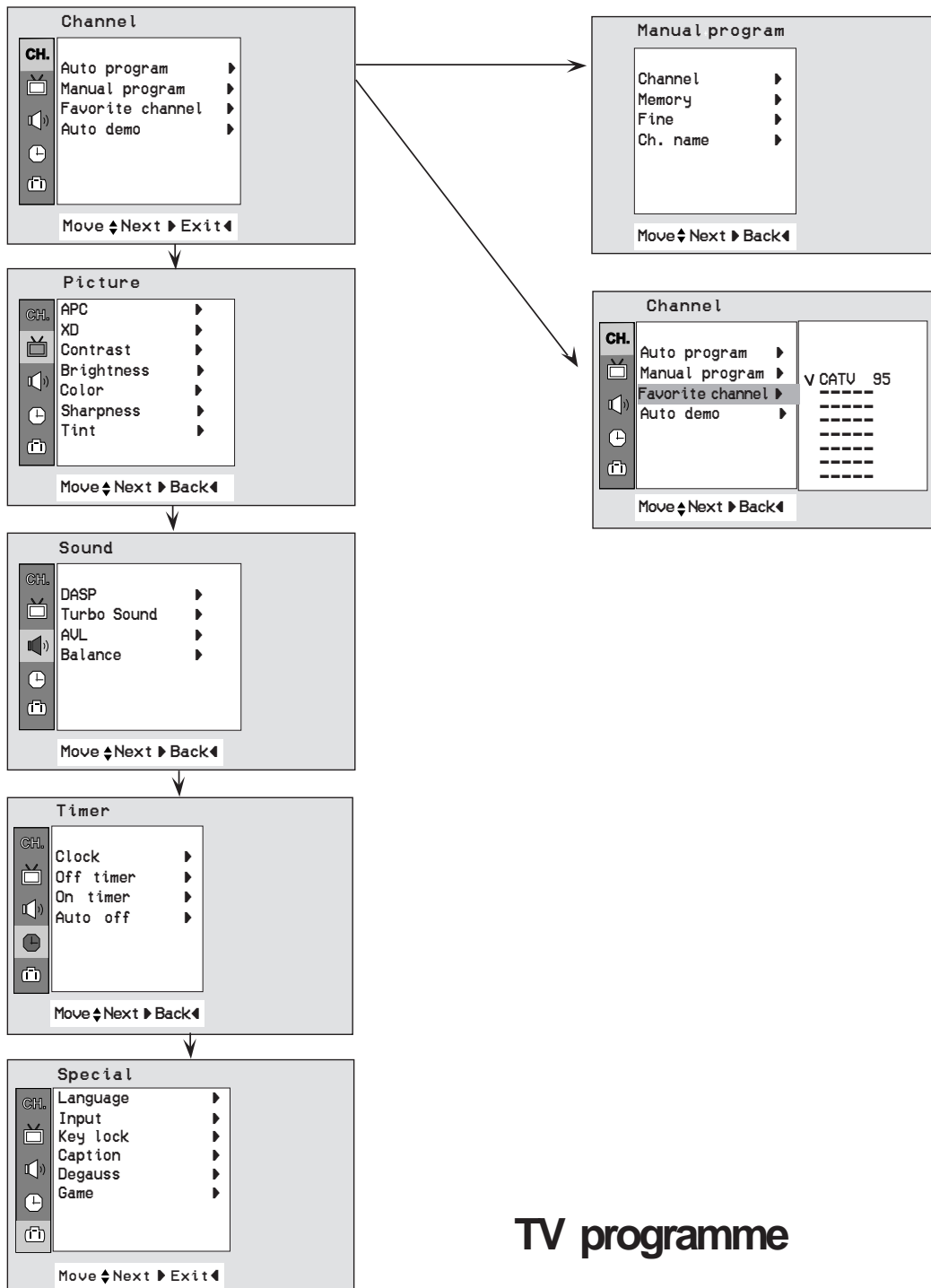
The dialogue between you and your set takes place on screen with an operator menu. The buttons required for the operating steps are also displayed.

### Menu selection

1. Press the **MENU** button and then **▲/▼** button to display each menu.
2. Press the **▶** button and then **▲/▼** button to

select a menu item.

3. Press the **▶** button to display the sub menu or the pull-down menu.
4. Change the setting of an item in the sub or pull-down menu with **◀/▶** or **▲/▼**. You can move to the higher level menu with **ENTER (■)** or **◀** button and to move to the lower level menu press the **▶** button.



## TV programme

## Basic TV operation

Before operating your TV, make sure the following instructions have been completed.

- Your TV has been connected to an antenna or a cable system.
- Your TV has been plugged in a power outlet.
- In this manual, the OSD (On Screen Display) may be different from your TV's because it is just an example to help you with the TV operation.

### Turning on/off the TV

Press the **POWER** (or **ON/OFF**) button on the set. At this time, the set switches to standby mode and the standby indicator lights up in red.

To switch the TV on from standby mode, press the **TV/VIDEO, CH ▲/▼** button on the set or **POWER, TV/VIDEO, CH ▲/▼** or number button on the remote control.

A channel number will be displayed on the screen. The on-screen display will disappear after a few seconds.

Press the **POWER** button on the remote control. It reverts to standby mode.

To switch the TV off, press the **POWER** button on the set.

### Selecting the on screen language

1. Press the **MENU** button and then **▲ / ▼** button until the menu is displayed as shown right.
2. Press the **▶** and then **▲ / ▼** button to select **Language**.
3. Press the **▶** and then use **▲ / ▼** button to select the desired language.  
From this point on, the on-screen display will be presented in the language of your choice.
4. Press the **MENU** button to exit.

### Memorizing Channels

This is the function to memorize all the active channels in your area before you can use the TV. There are two ways of memorizing channels. You can use either.

One is called **AUTO PROGRAM** and the other is called **MANUAL PROGRAM**.

In **AUTO PROGRAM** the TV will memorize the channels in ascending order. If there are additional channels you want to add or delete, you can manually add or delete those channels.

### Memorizing the Channels by AUTO PROGRAM

**AUTO PROGRAM** searches and memorizes all the active channels in your area then you can select the desired channel with the **▲ / ▼** buttons.

#### Using the A.PROG button

You can conveniently perform **AUTO PROGRAM** using the **A.PROG** button on the remote control.

1. Press the **A.PROG** button.
2. Press the **▶** or **A.PROG** button. The **AUTO PROGRAM** starts now.

If you want to stop auto programming, press the **ENTER (■)** button.

Only the channels searched up to that time are memorized.

**Notes :**

- If the programmed signal has poor quality, memorize again in the **Auto program**.
- **AUTO PROGRAM** stores all receivable channels regardless of receiving signal (RF, Cable).
- If channels of general wireless TV and cable TV are duplicated, press the number buttons (0 ~ 9) to change as .



### Using the MENU button

1. Press the **MENU** button and then use **▲ / ▼** button to select the channel menu.
2. Press the **▶** and then **▲ / ▼** button to select **Auto program**.
3. Press the **▶** button to enter the **Auto program** mode.
4. The **AUTO PROGRAM** starts now.

### Memorizing the Channels by MANUAL PROGRAM

#### Using the MEMORY/ERASE button

You can conveniently perform **MANUAL PROGRAM** using the **MEMORY / ERASE** button on the remote control.

1. Press the **▲ / ▼** or **NUMBER** buttons to select the channel number you want to memorize or erase.
2. Press the **MEMORY/ERASE** button to select **Memory** or **Erase**.  
The on screen display appears as shown right.

### Selecting the Channel

Press the **▲ / ▼** button to conveniently select the upper or lower channel then the channel being viewed, or **NUMBER** buttons to directly select the desired channel.

### Adjusting the Volume

Press the **▶** button to increase the volume level or **◀** button to decrease the volume level.

To mute the sound, Press the **MUTE** button.

It's convenient when you get the telephone calls.

To restore the muted sound, press the **MUTE** button again or **VOL ◀/▶** button.

## Various function

### Setting the Clock

Before setting the on/off timer, first you should set the current time.

### Setting the OFF TIMER

This is the function to automatically switch the TV to standby mode at a preset time.

**Note:** If the same time is set for the on time and off time, only the off time operates.

### Setting the ON TIMER

This is the function to automatically turn the TV on at a preset time and channel.

#### Notes:

- If you don't press any button within 2 hours after turning on the TV set by ON TIMER function, the set will be automatically switched back to standby mode.
- TV must be in standby mode for the On timer to work.

### Setting the Sleep Time

You don't have to remember to switch the TV to standby mode before you go to sleep. The sleep timer automatically turns the TV off after the preset time elapses.

Press the **SLEEP** button to select the desired sleep time.

Each time you press this button, the sleep time is displayed one by one as shown below. The timer begins to count down from the number of minutes selected.



#### Notes:

- After a few seconds, the desired sleep time will disappear and be operated automatically.
- To view the remaining sleep time, press the **SLEEP** button once and the remaining sleep time will be displayed.
- To cancel the sleep time, select the **Sleep ---** mode by using the **SLEEP** button.

### Auto Off

If there is no input signal, the TV is switched to standby mode automatically in 10 minutes.

### Operating the degauss (some models)

In this TV set the magnetic field of the earth may

influence on the color purity of picture by neighbor magnetic substance or installation direction of the TV set. The stripes may appear on the screen or the color may not be equal in the corner. You can enjoy the program in high color quality by operating the Degauss.

#### Notes:

- Do not operate this function often because the lifetime of CPT may be shorten.
- If you cannot adjust the screen condition by degaussing, try it again after about 4 minutes.

### Key Lock

The TV can be set so that the remote control is needed to control it. This feature can be used to prevent unauthorized viewing.

#### Notes :

- With the key lock on, the display **Key lock** appears on the screen if any button on the front panel is pressed while viewing the TV.
- This programmed to remember which option it was last set to even if you switch the TV from standby mode.

### Game (some models)

You can enjoy the TV game with this set.

### Adjusting the Fine

This function is to adjust the picture to stable condition when it is poor, for example, a horizontal stripe, twisted picture or no color in broad-casting.

#### Notes :

- To release the memorized fine tuning, program again the fine-tuned channel by **AUTO PROGRAM** or **MANUAL PROGRAM**.
- If the finely tuned channel is memorized, the color of the channel number changes to yellow.

### Favorite channel memory

Favorite channel memory is a convenient feature that lets you quickly scan up to five channels of your choice without having to wait for the TV to scan through all the in-between channels.

### Auto Demonstration

Auto demo allows you to review all the menus available on the TV set.



## Picture control

### Auto Picture Control

You can select picture modes programmed at factory as you prefer.

#### Using the APC button

1. Press the **APC** button.
2. Press the **APC** button to select **Clear**, **Optimum**, **Soft** or **User**.
3. Press the **ENTER**(■) button to exit.

### Adjusting the Picture

This is the function to manually adjust the desired picture levels (**Contrast**, **Brightness**, **Color**,

**Sharpness**, **Tint**) of the screen as you like. If the picture you set is not satisfactory, you can select a factory preset picture. In the broadcasting system PAL-M/N, the picture item **Tint** is not displayed.

### XD (some models)

XD is LG Electronic's unique picture improving technology to display a real HD source through an advanced digital signal processing algorithm.

Note : When selecting APC options (Clear, Optimum and Soft), XD is automatically change to On.

## Sound control

### Enjoying the Stereo/SAP Broadcast

This TV set can receive MTS stereo programs and any SAP (Secondary Audio Program) that accompanies the stereo program, as the system to be transmitted one additional sound signal as well as the original one. MTS function doesn't operate in the video mode.

#### Using the MTS Button

1. Press the **MTS** button to select your desired MTS mode.  
Each time you press this button, the **MONO**, **STEREO** or **SAP** mode appears in turn.
2. Press the **ENTER** (■) button to exit.

#### Notes:

- Stereo or SAP can only be received if the TV station transmits those signals, even though you have selected **STEREO** or **SAP**.
- Mono sound is automatically received if the broadcast is only in Mono; even though **STEREO** or **SAP** has been selected.
- Select **MONO** if you want to listen to mono sound in remote fringe areas during stereo/SAP broadcasting.

### Auto Sound Control

You can enjoy the best sound without any special adjustment because this TV set automatically adjusts the sound appropriate to viewing program character by self-intelligence.

### AVL (Auto Volume Leveler)

AVL automatically keeps on an equal volume level

even if you change channels.

### X-WAVE (some models)

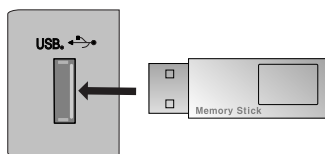
#### Note:

1. If the reception is poor or weak, select a different frequency.
2. For best results, there should be no more than 19ft between the TV and FM Receiver.
3. In certian areas, the FM transmitter ability may be weak, such as near a broadcast tower.
4. The reception sensitivity may depend on the kinds of receiver (FM radio).

### Turbo Sound (some models)

With this function sound will be more emphasized and amplified than normal sound. You can enjoy the Turbo sound so much better than normal sound.

## USB MODE



### • Connecting USB device

1. Connect USB device to USB slot which is on the side of the TV set.
2. Press USB key on the remote or select USB in main menu special mode.

### • Removing the USB device from TV

1. Return to main menu and press STOP(■/ESC) twice.
2. Remove the USB device from TV.



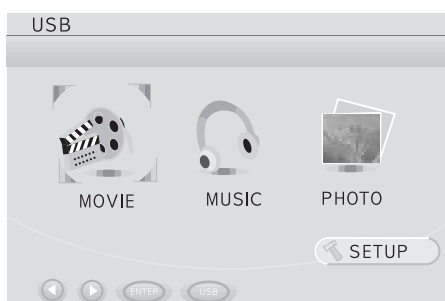
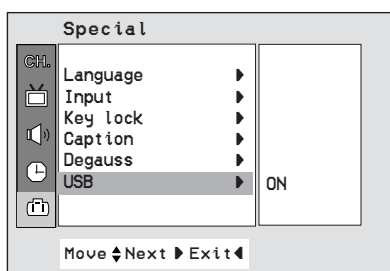
- When you plug a USB or press the USB button, the below screens will be displayed.

### • Enter into **USB** mode

1. Press "USB" key on remote control.
2. Select "USB" on the main menu special mode.

### • Exit from **USB** mode

1. Press "USB or MENU" key on remote control in USB mode.
2. Press local key "MENU" in USB mode.



### Notes :

- Don't extract the USB device while operating. Music files (MP3), image files (JPG) and AVI files can be played.

- USB HUB connection is not available.
- Recommended USB device and file system.
  - Connecting USB device should comply with USB 2.0 specifications.
  - Compatible with : FAT16, FAT32 (Recommend FAT32 for USB over 2GB).
  - Only use USB memory stick recommended.
- Devices which require additional program installation may cause identification or data reading problem.
- In case of a USB HDD, make sure to connect an auxiliary power to the USB HDD for proper operation. 1 primary partitions of a drive is supported. If there is an extension partition, it will not be supported.
- Digital cameras and mobile phones are not supported.
- Unsupported or damaged AVI, JPG or MP3 files can cause errors. Do not try to change the file extension of unsupported file types to the file extension of supported file types.
- This device codec is hardware codec so the supportable file format and codec can not be updated by firmware upgrade.
- Entry into USB mode can be activated or deactivated by USB key on the remote controller.
- If you make entry back into USB mode after switching to RF while playing USB media, music and movie will be paused. For play, press ►► key to continue to play.
- TIMEOUT function : If there is no IR Input from remote controller for about 4 hours after entry to USB mode, all operations being played stop and will be switched and fixed to USB main menu.
- Customers should note that permission is required in order to download MP3 or movie files from internet. Our company has no right to grant such permission. Permission should always be sought from the copyright owner.

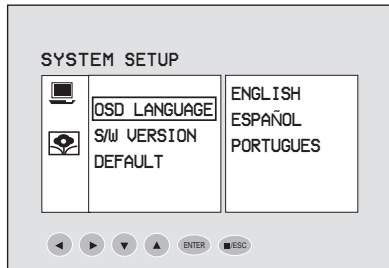


## SYSTEM SETUP

### Select the OSD Language

- The menus can be shown on the screen in the selected language. First select your language.

1. Press the **USB** button and then use ▲/▼/◀/▶ button to select the Setup.
2. Press the **ENTER** button to enter the Setup menu.
3. Press the ▲/▼ button to select the **SYSTEM SETUP**.
4. Press the ▶ and then use ▲/▼ button to select **OSD LANGUAGE**.



5. Press the ▶ and then use ▲ / ▼ button to select the desired language.
6. Press the **USB** button to exit or press the ■/ESC button to return to the USB menu. Press the **Menu** button to return to the TV menu.

### Select the S/W Version

- Show the S/W Version.

1. Press the **USB** button and then use ▲/▼/◀/▶ button to select the Setup.
2. Press the **ENTER** button to enter the Setup menu.
3. Press the ▲/▼ button to select the **SYSTEM SETUP**.
4. Press the ▶ and then use ▲/▼ button to select **S/W VERSION**.
5. Press the ▶.
6. Press the **USB** button to exit or press the ■/ESC button to return to the USB menu. Press the **Menu** button to return to the TV menu.

### Select the Default

- Use the Default option to initialize the adjusted settings.

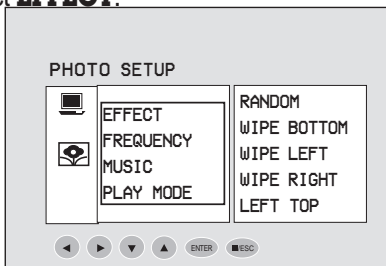
1. Press the **USB** button and then use ▲/▼/◀/▶ button to select the Setup.
2. Press the **ENTER** button to enter the Setup menu.
3. Press the ▲/▼ button to select the **SYSTEM SETUP**.
4. Press the ▶ and then use ▲ / ▼ button to select **DEFAULT**.
5. Press the ▶.
6. Press the **USB** button to exit or press the ■/ESC button to return to the USB menu. Press the **Menu** button to return to the TV menu.

## PHOTO SETUP

### Select the Effect

-The picture display effect for the slide show.  
-The playing mode of some files format is from top to bottom.

1. Press the **USB** button and then use ▲/▼/◀/▶ button to select the Setup.
2. Press the **ENTER** button to enter the Setup menu.
3. Press the ▲/▼ button to select the **PHOTO SETUP**.
4. Press the ▶ and then use ▲ / ▼ button to select **EFFECT**.



5. Press the ▶ and then use ▲ / ▼ button to select the desired Effect.
6. Press the **USB** button to exit or press the ■/ESC button to return to the USB menu.

### Select the Frequency

-The picture display interval for the slide show.

1. Press the **USB** button and then use ▲/▼/◀/▶ button to select the Setup.
2. Press the **ENTER** button to enter the Setup menu.
3. Press the ▲/▼ button to select the **PHOTO SETUP**.
4. Press the ▶ and then use ▲/▼ button to select **FREQUENCY**.

5. Press the ▶ and then use ▲ / ▼ button to select the Frequency.
6. Press the **USB** button to exit or press the ■/ESC button to return to the USB menu.

### Select the Music

- You can turn on or off the background music when playing the photograph mode.

-The background music is from USB memory.

1. Press the **USB** button and then use ▲/▼/◀/▶ button to select the Setup.
2. Press the **ENTER** button to enter the Setup menu.
3. Press the ▲/▼ button to select the **PHOTO SETUP**.
4. Press the ▶ and then use ▲ / ▼ button to select **MUSIC**.
5. Press the ▶ and then use ▲ / ▼ button to select **ON** or **OFF**.
6. Press the **USB** button to exit or press the ■/ESC button to return to the USB menu.

### Select the Play Mode

-You can select your desired playback mode in the slide shows.

1. Press the **USB** button and then use ▲/▼/◀/▶ button to select the Setup.
2. Press the **ENTER** button to enter the Setup menu.
3. Press the ▲/▼ button to select the **PHOTO SETUP**.
4. Press the ▶ and then use ▲/▼ button to select **PLAY MODE**.
5. Press the ▶ and then use ▲ / ▼ button to select **NORMAL** or **RANDOM**.
6. Press the **USB** button to exit or press the ■/ESC button to return to the USB menu.

## MOVIE Media

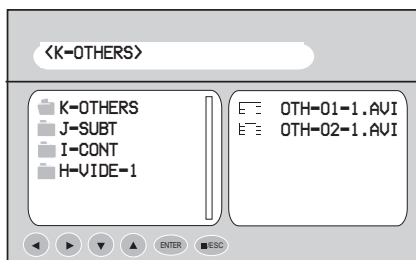
### Select the MOVIE, MUSIC or PHOTO Media

- When you plug a USB or press the USB button, the below screens will be displayed.

1. Press ◀/▶ button to select Movie, Music or Photo.
2. Press the ENTER button to enter the Movie, Music or Photo media.
3. Press the USB button to exit.

### Movie File Playing Operation

1. Press the USB button and then use ▲/▼/◀/▶ button to select the Movie.
2. Press the ENTER button.



3. Press the ▲/▼/◀/▶ button to select folder and desired movie file.
4. Press the ▶▶ (alternative play) or ENTER (single play) button. Then the movie starts.
5. Press the USB button to exit or press the ■/ESC button to stop or return to the USB main menu.

### Using the remote control

Notes:

- Movie (AVI) file compatibility with this player is limited as follows :  
- Available resolution of AVI file is under 720x480 (576) pixel.

- If video codec is not supportable, "UNSUPPORTED FORMAT" OSD will be displayed in the file list menu.
- If sound codec is not supportable, Video may display but "UNSUPPORTED FORMAT" OSD will be displayed with no sound.
- If sound has no data stream, "NO SOUND" OSD will be displayed on the screen.
- If the number of the screen frame is over 30 per 1 second, this device may not operate normally.
- Supportable Subtitle format: srt, sri, smi, txt, ssa, ass, sub, psb
- Supportable movie file extension: ".DAT", ".AVI", ".MP4", ".MPG"
- Supportable video codecs: MPEG1(VCD 1.0, 1.1, 2.0, SVCD), MPEG4 ASP or Compatible codecs

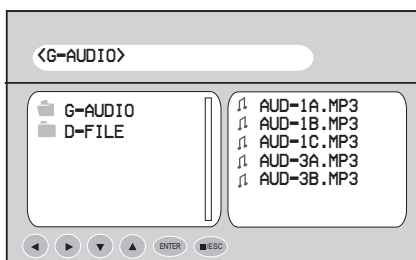
VOL- VOL+ 1 2	To increase or decrease volume level for the Movie.
4 6	Press the 4 button to jump previous Movie. Press the 6 button to jump next Movie.
ESC 5	Stop movie playing or move to the movie file list menu.
8	Still screen is displayed. (When playing movie) Play movie in sequence (at movie list)
7 9	Press the 7 button to rewind. Press the 9 button to fast forward.
ENTER ■	Show the Information of movie. (when playing movie) Play movie selected by cursor. (at movie list)
SELECT 0	ON/OFF or Select subtitle

## MUSIC Media

### MP3 File Playing Operation

- Purchased MP3/music files may contain copyright restrictions.

1. Press the USB button and then use ▲/▼/◀/▶ button to select the Music.
2. Press the ENTER button.
3. Press the ▲/▼/◀/▶ button to select folder and desired music file.
4. Press the ▶▶ (alternative play) or ENTER (single play) button. Then the music starts.
5. Press the USB button to exit or press the ■/ESC button to stop or return to the USB menu.



### Using the remote control

VOL- VOL+ 1 2	To increase or decrease volume level for the Music.
4 6	Press the 4 button to jump previous Movie. Press the 6 button to jump next Movie.
ESC 5	Moved the Folders in menu. (at music list) Stop playing music. (when playing music)
7 9	Press the 7 button to jump backforward. Press the 9 button to jump forward.
8	To pause playback. (when playing music) Play music in sequence (at music list)
ENTER ■	Play music selected by cursor.

## MUSIC Media

### Using the remote control

#### Notes :

- MP3 compatibility with this player is limited as follows:
  - Sampling frequency :within 8 -48 KHz
  - Bit rate :32 -384 Kbps, Support all variable bit rates
  - TV can not read an MP3 file that has a file extension other than ".mp3"
  - File name should have a maximum of 8 letters and must incorporate an .mp3 extension.
  - Total number of files on the USB memory device should be less than 1200.
- This TV mp3 player requires mp3 files to meet

certain technical standards (ISO/IEC 111723,ISO/IEC 13818-3.2)in order to achieve optimal playback quality.

- There are many different types of MP3 encoders and these require certain pre-existing conditions above to ensure compatible playback.
- The navigation key can be shifted only up and down during MP3 file play and cannot switch to other folder.
- In order to play a file in other folder, stop the file being played, and move cursor to another folder.
- In case of VBR (Variable Bit Rate) MP3, estimated playing time may not correct as actual playing.

## PHOTO Media

### JPEG File Viewing Options

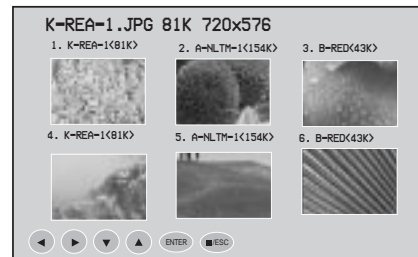
- When you select Photo in entry menu, you will now see a screen filled with thumbnail photo media.

1. Press the USB button and then use ▲/▼/◀/▶ button to select the Photo.
2. Press the ENTER button.
3. Press the ▲/▼/◀/▶ button to select photo file.
4. Press the ENTER button for 1 picture display and press 8 for slide show.
5. Press the **USB** button to exit or press the **■/ESC** button to stop slide show or return to thumbnail file list, USB main menu.

### Slide Show

1. Press the ▲/▼/◀/▶ button to select JPEG file and then press the **8** button. Slide show starts.
2. You can choose the slide show effect, frequency and play mode in the USB Setup.

3. Press the **▶||** button to pause the current image.
4. Press the **USB** button to exit or press the **■/ESC** button to stop slide show return to the USB menu.



### Still picture

Press the ▲/▼/◀/▶ button to select JPEG file then press the **ENTER** button. Selected still picture display starts.

## PHOTO Media

### Using the remote control

	To increase or decrease volume level for the Music. (When selecting the turn-on of background music when playing the photograph mode.)
	To select the previous or next page. (at thumbnail mode) To jump to the previous or next photo (at one photo display)
	Move to main menu from thumbnail mode.
	These keys (FF&RW) are not available in photo mode.
	To enlarge or reduce the image 2, 3 or 4 times. (at one photo display)
	1. Zoom mode To scroll left, right, up and down 2. Still picture display mode VOL+: Rotate 90° (Clockwise) VOL- : Rotate -90° (Counter - clockwise) CH+ : Upside down & vice versa CH- : Mirror image & vice versa

#### Notes :

- JPEG compatibility with this player is limited as follows :
  - Depending upon the size and the number of JPEG files,it could take a long time for TV to read the USB memory's contents. If you don't see an on screen display after several minutes,some of the files maybe too large-reduce the resolution of the JPEG files to less than 2M pixels as 2760x2048 resolution.
  - The total number of files and folders on the USB memory device should be less than 1200.
  - File name without ".jpg" extension will not be able to read by this TV jpeg decoder. Even though the files are shown as JPEG image files in Windows Explorer.
  - Cause of Photo character, Progressive JPEG is always scanned "WIPETOP" regardless of Photo Effect.

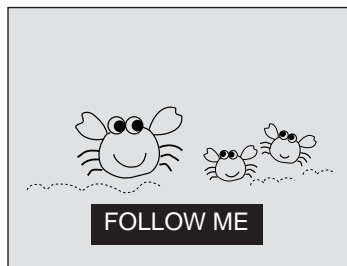
## Closed caption function

Closed captioning is a process which converts the audio portion of a television program into written words, which then appear on the television screen in a form similar to subtitles. Closed captions allow viewers to read the dialogue and narration of television programs.

### Using Closed Captions

Captions are the subtitles of the dialogue and narration of television programs. For prerecorded programs, program dialogue can be arranged into captions in advance. It's possible to caption a live program by using a process called "real-time captioning", which creates captions instantly. Real-time captioning is normally done by professional reporters using a machine shorthand system and computer for translation into English. Captioning is an effective system for the hearing-impaired, and it can also aid in teaching language skills.

- The picture at left shows a typical caption.



### Caption Tips

- Not all TV broadcasts include closed caption signals.
- Sometimes TV stations broadcast two different caption signals on the same channel. By selecting MODE 1 or MODE 2, you can choose which signal you view. MODE 1 is usually the signal with the captions, while MODE 2 might show demonstration or programming information.
- Your TV might not receive caption signals normally in the following situations.

1 Poor reception conditions are encountered:

#### ■ IGNITION:

Picture may flutter, drift, suffer from black spots or horizontal streaking. Usually caused by interference from automobile ignition systems, neon lamps, electrical drills and other electrical appliances.



#### ■ GHOSTS:

Ghosts are caused when the TV signal splits

and follows two paths. One is the direct path and the other is reflected off tall buildings, hills or other objects. Changing the direction or position of the antenna may improve reception.



#### ■ SNOW:

If your receiver is located at the weak, fringe area of a TV signal, your picture may be marred by small dots. It may be necessary to install a special antenna to improve the picture.



- 2 An old, bad or illegally recorded tape is played.
- 3 Strong, random signals from a car or airplane interfere with the TV signal.
- 4 The signal from the antenna is weak.
- 5 The program wasn't captioned when it was produced, transmitted or taped.

### Using the Text Function

Text services give a wide variety of information on all kind of subjects (ex. captioned program lists, weather forecasts, stock exchange topics, news for hearing-impaired---) through the full TV screen. But not all stations offer text services, even though they might offer captioning.

**Note:** In the event you receive a poor signal, an empty black box may appear and disappear, even when the text mode is selected. This is normal function in such an event.

### Operating the Caption and Text

#### Using the CAPTION button

1. Press the **CAPTION** button.
2. Press the **CAPTION** button to select **OFF**, **Mode 1**, **Mode 2**, **Text 1** or **Text 2**.
3. Press the **ENTER** (■) button to exit.

#### Using the MENU button

1. Press the **MENU** button and then use ▲ / ▼ button to select the Special menu.
2. Press the ► and then ▲/▼ button to select **Caption**.
3. Press the ► button and then use ▲/▼ button to select **Off**, **Mode 1**, **Mode 2**, **Text 1** or **Text 2**.
4. Press the **MENU** button to exit.

**Note:** This TV is programmed to remember which mode it was last set to, even if you turn the TV off.

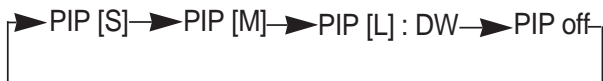


## PIP function (Some models)

### Watching the PIP (Picture in Picture)

This is the function to call up a little picture (PIP : picture in picture) within the main picture. Thus at the same time you can watch two different programs.

1. Press the **PIP/DW** button to select PIP mode or double window mode. Repeatedly press the **PIP/DW** button to select the desired sub picture size.



2. Press the **CH +/-** button of the PIP buttons to select the desired channel in the sub picture.

#### Notes:

- Press the **▲/▼** button to select the upper or lower channel in main picture and press the **CH +/-** button of the PIP buttons to select the upper or lower channel in sub picture.
- 4:3 and Zoom don't operate in PIP [L] mode.

### Selecting the input signal (in PIP and Double window mode)

#### Using the PIP MENU Button

1. Press the **PIP MENU** button.
2. Press the **▲/▼** button to select **Input**.
3. Press the **▶** and then use **▲/▼** button to select **TV, AV 1, AV 2, AV 3**.
4. Press the **VOLUME (◀)** button to exit.

#### Using the MENU Button

1. Press the **MENU** button and then use **▲/▼** button to select the Special menu.
2. Press the **▶** and then use **▲/▼** button to select the **PIP input**.
3. Press the **▶** and then use **▲/▼** button to select the **TV, AV 1, AV 2, AV 3**.
4. Press the **◀** button to exit.

### Channel Search

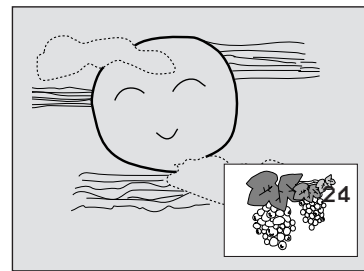
This is the function to search one by one the pictures of all the programmed channels through the PIP screen while the main screen remains as a current channel.

Press the **CH. SEARCH** button.

The pictures of all the programmed channels are searched through one PIP screen.

To release the channel search, press the **CH. SEARCH**.

**Note:** By pressing the **SWAP** button, you can see the channel being searched on the PIP screen through the main screen.



### Moving the Sub Picture (in PIP mode)

Press the **POSITION** button to select the desired position of sub picture.

### Swapping Screens

Press the **SWAP** button.

Each time you press this button, the main picture and sub picture exchange places.

### Still Picture

Press the **STILL** button.

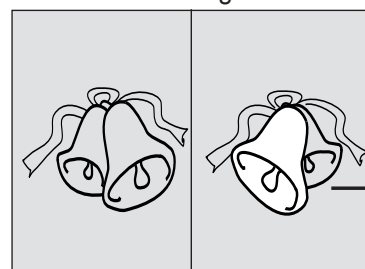
The still picture is displayed.

In PIP mode, the still picture is displayed in the sub picture.

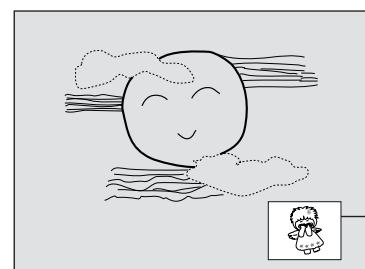
To cancel the still picture, press the **STILL** button again.

Press the **MAIN STILL** button. In PIP mode, the still picture is displayed in the main picture.

To cancel the still picture, press the **MAIN STILL** button again.



< Double window mode >



< PIP mode >

## Connection of external equipment (some models)

### Connecting an Outdoor Antenna

For the best reception, we recommend you use an outdoor antenna.

Severely weathered antennas and antenna cables can reduce the signal quality. Before connecting it, necessarily inspect them. Any service center can explain the various outdoor antennas available to you.

#### 300 Ohm Flat Wire

1. Connect the 300 ohm flat wire to screws on the 300 ohm to 75 ohm adapter.
2. Push the end of 300 ohm to 75 ohm adapter into 75 ohm antenna jack.

#### 75 Ohm Coaxial Cable

1. Connect the 75 ohm coaxial cable directly to the 75 ohm antenna jack.

### Connecting a CATV Cable

If you subscribe to a CATV system, change the antenna connection as described below.

1. Remove the 300 to 75 ohm adapter or the cable from the set if attached.
2. Connect the CATV cable (75 ohm coaxial cable) to the 75 ohm antenna jack.

### connection of additional equipment

You can connect additional equipment, such as VCRs, camcorders etc. to your set. Here shown may be somewhat different from your set.

These are an example drawing of typical jack layout.

1. **IN 1 JACKS** : Connect external equipment outputs (VCR, LASER DISC, CAMCORDER) to these inputs. Press the **TV/VIDEO** button to select **AV1**.
2. **IN 2 JACKS** : Connect external equipment outputs (VCR, LASER DISC, CAMCORDER) to these inputs. Press the **TV/VIDEO** button to select **AV2**.
3. **IN 3 JACKS** : Connect external equipment outputs (VCR, LASER DISC, CAMCORDER) to these inputs. Press the **TV/VIDEO** button to select **AV3**.
4. **OUT JACKS**: Connect external equipment inputs (VCR, Audio amplifier) to these outputs for recording or monitoring the selected program.

**Note:** This TV is programmed to remember which mode it was last set to, even if you turn the TV off.

### Connecting AUDIO/VIDEO IN Jacks

1. Connect the audio/video output jacks of the VCR to

**IN 1** or **IN 2**(A/V) jacks on the side or back of TV.

If you connect the audio jack only, you can't hear the sound from the TV.

2. Press the **TV/VIDEO** button to select **AV1** or **AV2**.

**Note:** In some stereo models, if you connect the audio/video output jacks of the VCR to the AV **IN 3**(A/V) jacks on the front or side of TV, select **AV3**.

3. Press the **PLAY** button on the VCR.

The video playback is on the TV screen.

**Note:** In case of MONO VCR, connect the output jack of VCR to the **AUDIO L/MONO IN** jack of TV so that the sound can be heard from both speakers. If you connect it to the **AUDIO R IN** jack of TV the sound is heard only from right speaker.

### VCR Recording(some models)

**Note:** In some mono models, when the input jacks on the front panel and back panel are connected to external equipments at the same time, the input jacks on the front panel have priority over the input jacks on the back panel of the TV.

1. Connect the audio/video input jacks of the recording VCR to the **OUT** (A/V) jacks on the back.
2. Select the program number on the TV.
3. Set the recording VCR to record.

### Recording a program from connected other equipment (some models)

1. Connect the output jacks of the playback VCR to the **IN 1** or **IN 2** (A/V) jacks on the side or back of TV (or **IN 3** jacks on the side of TV).
2. Connect the input jacks of the recording VCR to the **OUT** (A/V) jacks on the back of TV.
3. Press the **TV/VIDEO** button to select **AV-1** or **AV-2**.

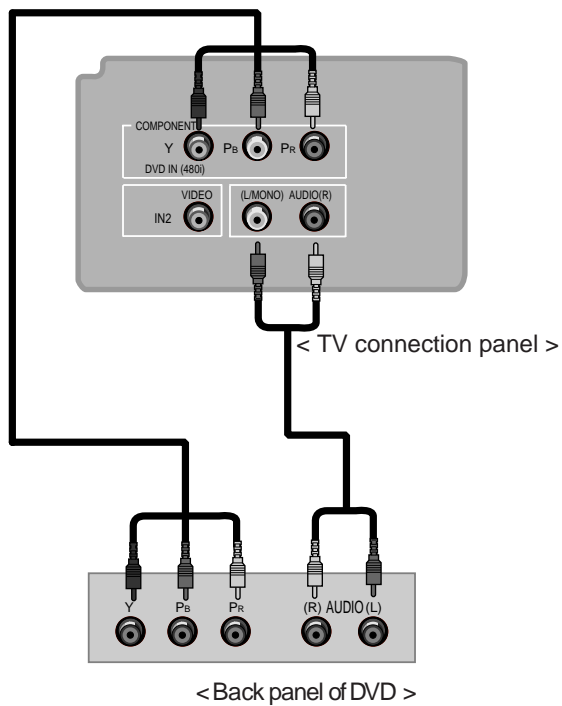
If you connect it to the **IN 3** (A/V) jacks on the side of TV, you should select **AV-3**.

4. Press the **PLAY** button on the playback VCR and set the recording VCR to record.



- Connect component video inputs to Y, Pb, Pr, (480i) and audio **IN2** to audio(L/R) ports.
- **Note:** This TV is programmed to remember which mode it was last set to, even if you turn the TV off.

## 1.How to connect



### Note:

TV INPUT	Y	Pb	Pr
	↑	↑	↑
	⋮	⋮	⋮
DVD OUTPUT	Y	Cb	Cr
	Y	B-Y	R-Y
	Y	Pb	Pr
	Y	Pb	Pr

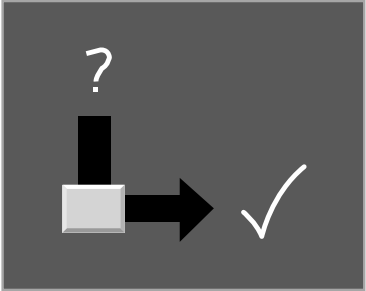
## 2.How to use

- Turn the set on and press the **TV/VIDEO** button on the remote control or **TV/VIDEO** button on the front panel to select **COMPONENT**.
- Try this after turning on the DVD set.

# Troubleshooting check list

## SYMPTOMS

- No power
- No picture or sound
- Poor picture but good sound
- Poor reception
- Lines in picture
- Ghosts (multiple images)
- Remote control does not work.
- Cannot tune desired channel.




## CHECK THESE THINGS

- Is power cord plugged in?
- Is television turned on?
- Check batteries in remote control.
- Try another channel (station trouble).
- Check antenna connectings.
- Check for local interference.
- Adjust the antenna.
- Adjust the picture control.
- Program channel using AUTO PROGRAM.

