



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.

Internet Home Page : <http://www.lge.com>

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.

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.

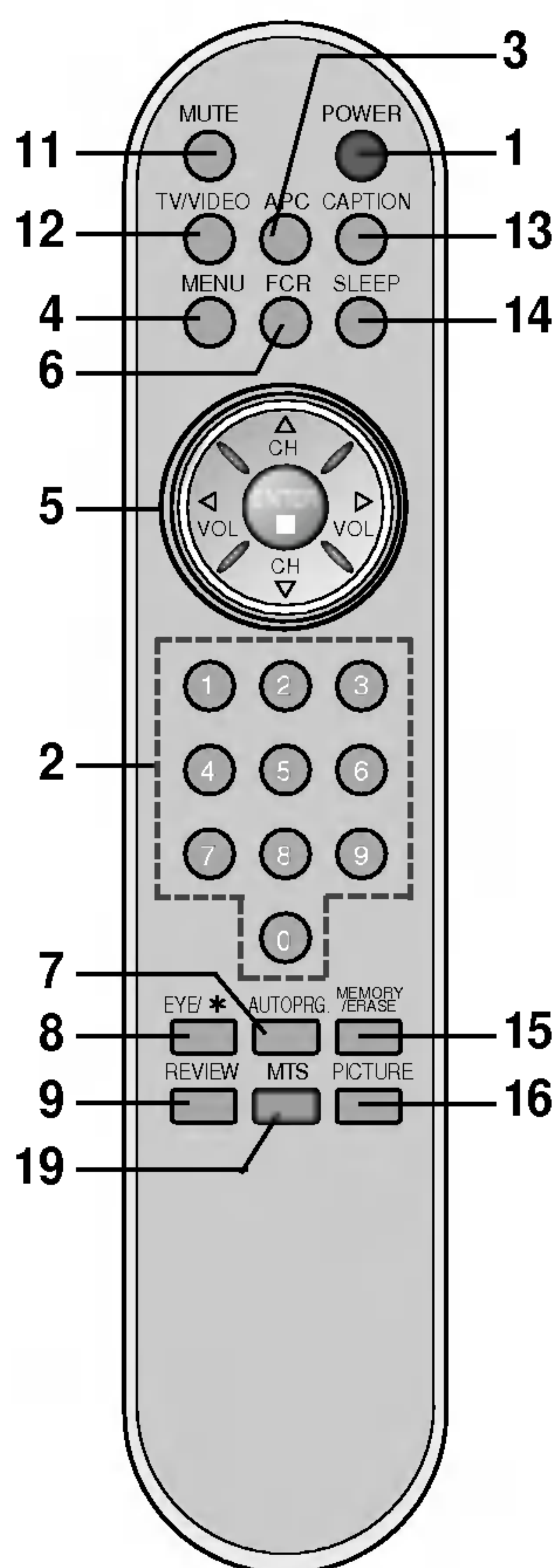
Model No.

Serial No.

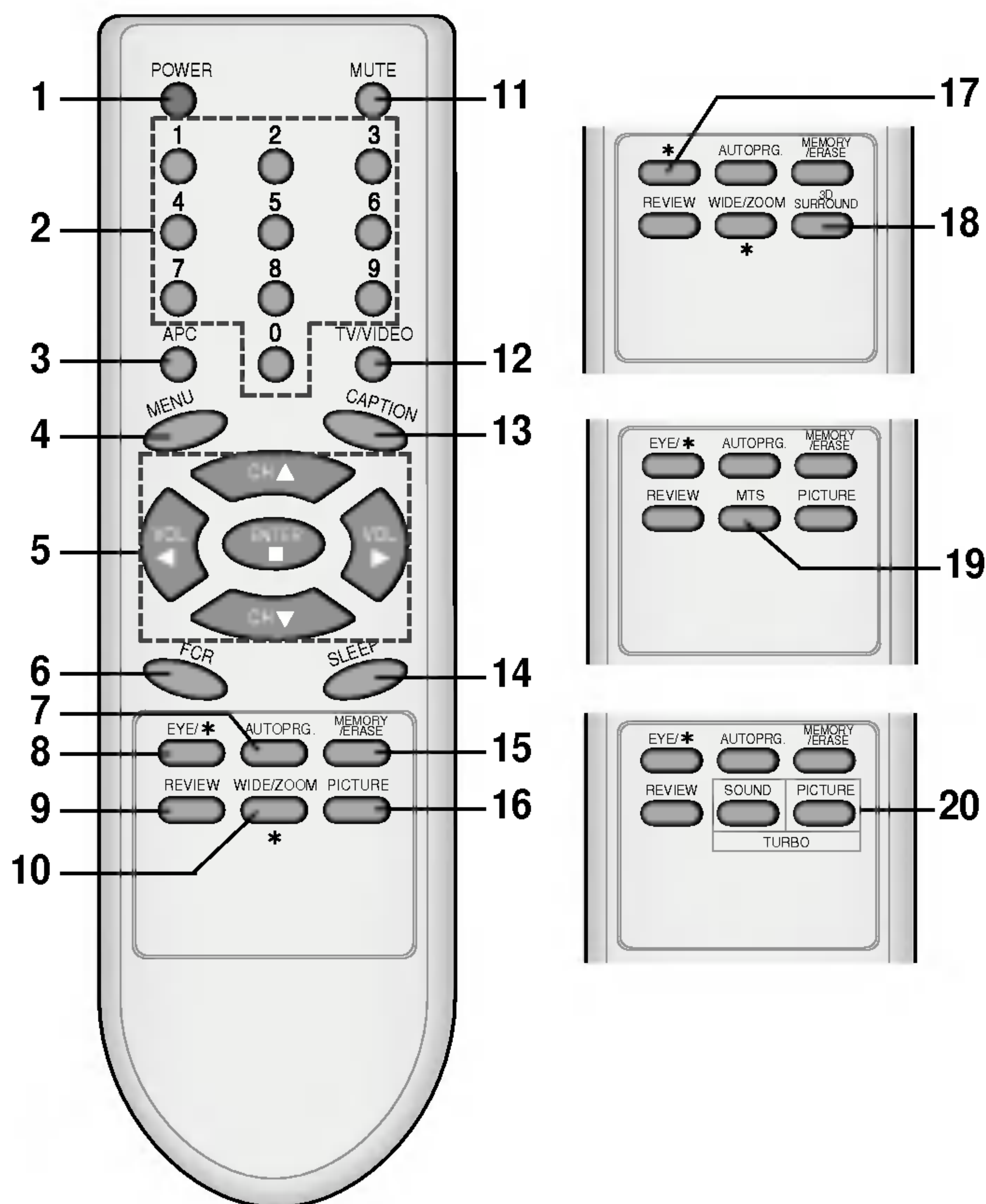
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Description of controls



- 1. POWER BUTTON (or ON/OFF)**
Refer to "Turning on/off the TV".
- 2. NUMBER BUTTONS**
To select the desired channel directly.
- 3. APC (Auto Picture Control) BUTTON**
To adjust the factory preset pictures corresponding to the lighting around.
- 4. MENU BUTTON**
To display on screen menus.
- 5. CHANNEL 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).
- 6. FCR (Favorite Channel Review) BUTTON**
To select the favorite channel.
Refer to "Favorite channel memory".
- 7. AUTO PRG. (Auto program) BUTTON**
To memorize channels by AUTO PROGRAM.
- 8. EYE/* BUTTON (some models)**
To switch on or off eye picture.
Refer to "Enjoying the Eye Function".
*: No function.
- 9. REVIEW BUTTON (some models)**
To return to the previous channel.
- 10. WIDE/ZOOM/* BUTTON (some models)**
To select the desired picture format (4:3, 16:9 or ZOOM).
*: No function.
- 11. MUTE BUTTON**
To mute the sound. Again to restore the muted sound.
- 12. TV/VIDEO BUTTON (some models)**
To select TV, VIDEO or COMPONENT mode.
- 13. CAPTION BUTTON (some models)**
To select the CAPTION mode.
Refer to "Closed caption function".



14. SLEEP BUTTON

To set the desired sleep time.

15. MEMORY/ERASE BUTTON (some models)

To memorize or erase the desired channel.

16. PICTURE BUTTON (some models)

To display picture modes one by one.

17. * BUTTON (some models)

No function.

18. 3D SURROUND BUTTON (some models)

To select ON or OFF mode.

19. MTS BUTTON (some models)

To listen to the MTS sound.

20. TURBO SOUND/TURBO-S BUTTON (some models)

To switch on or off TURBO SOUND function.

TURBO PICTURE/TURBO-P BUTTON (some models)

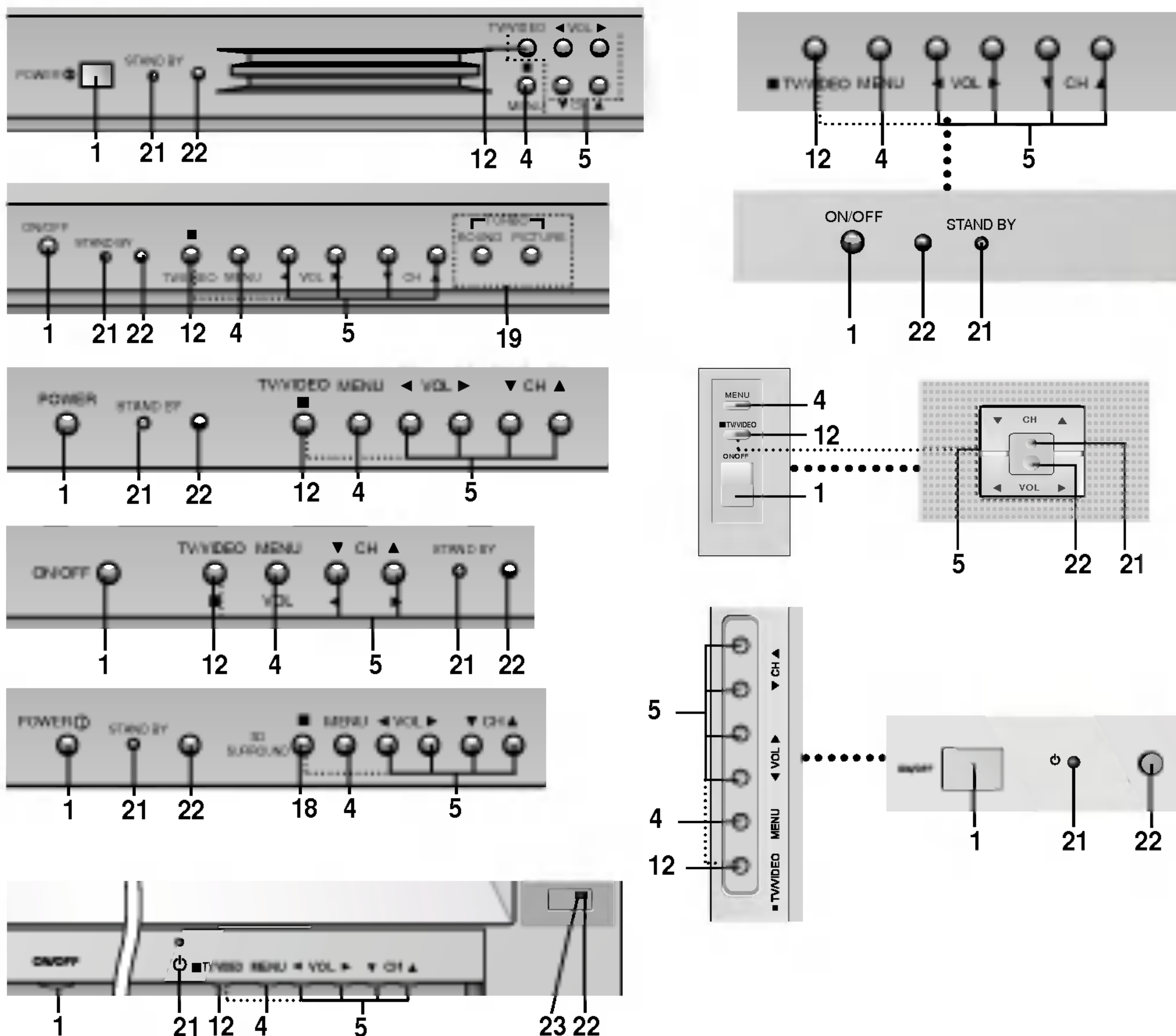
To switch on or off TURBO PICTURE function.

Note: Fitting Batteries in the Remote Control Unit

- Open the battery compartment cover on the back side and insert the batteries with correct polarity.
- Apply two 1.5V batteries of AAA type. Don't mix the used batteries with new batteries.

Description of controls

This is a simplified representation of front panel.



21. STAND BY INDICATOR (STAND BY or)

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

22. REMOTE CONTROL SENSOR

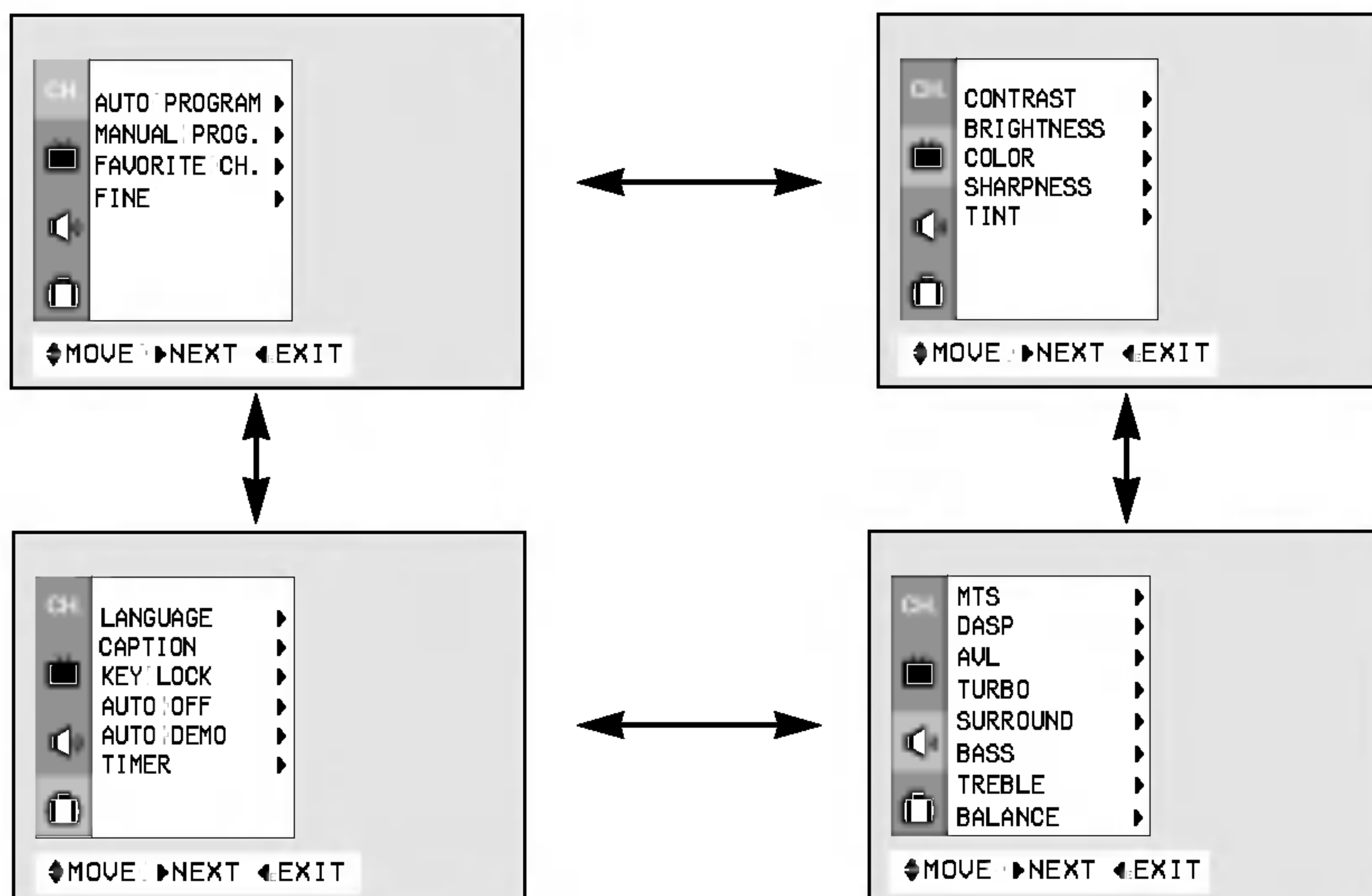
23. EYE SENSOR (some models)

Adjusts picture according to the surrounding conditions.

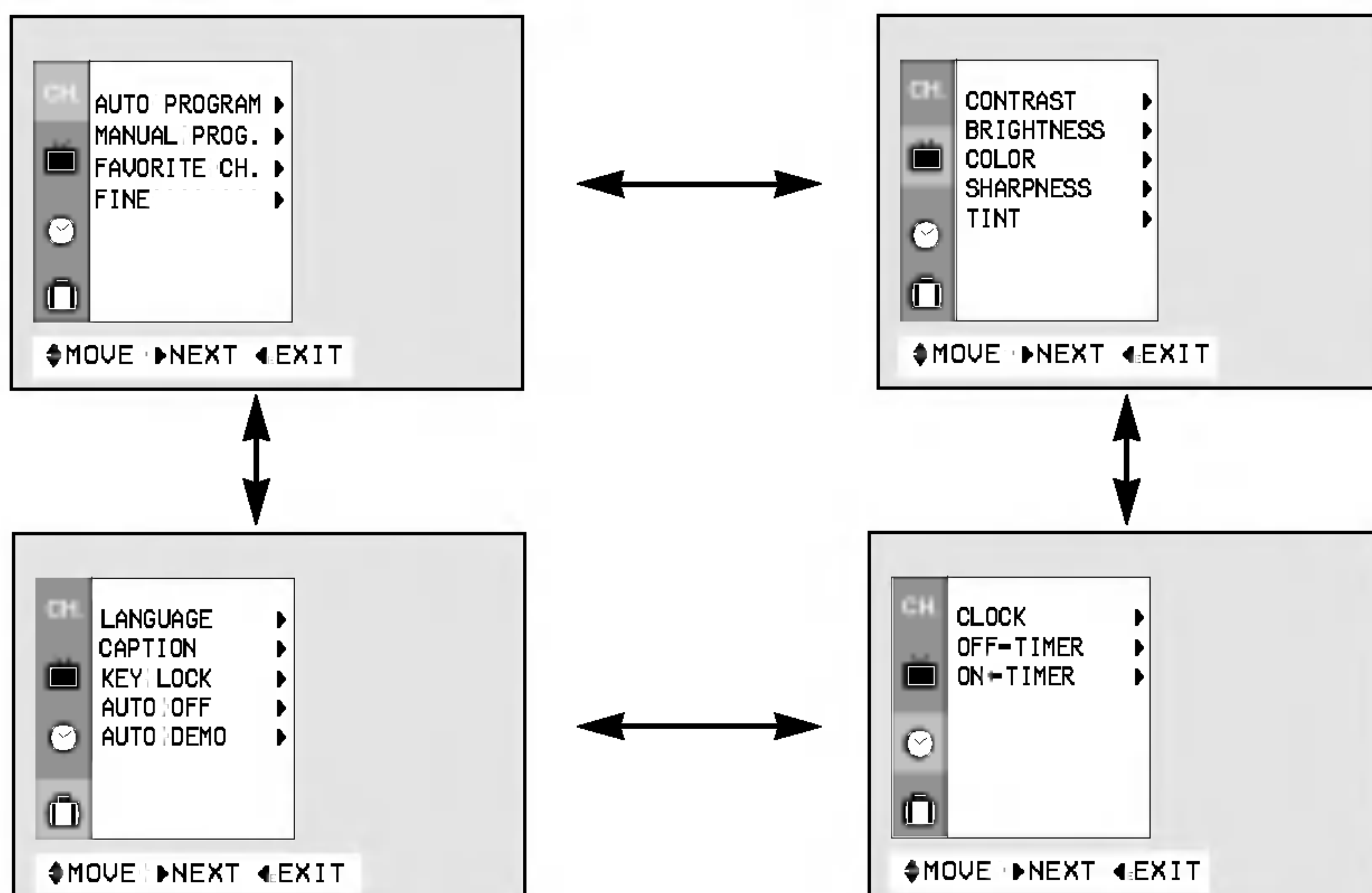
Basic TV operation

- * Press the **MENU** button and then **▲/▼** buttons to select a menu you want to use.
- * **This operating guide explains operating of stereo model mainly.**

Stereo model



Mono model



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.

Turning on/off the TV

The set switches to standby mode and the standby indicator lights up in red.

To switch the TV on from standby mode, press the ON/OFF, TV/VIDEO, CH ▲/▼ button on the set or 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 or ON/OFF button on the set. It reverts to standby mode.

Selecting the on screen language

1. Press the **MENU** button and then ▲/▼ button the until the menu is displayed as shown right.
2. Press the ► and then ▲/▼ button to select **LANGUAGE**.
3. Press the ► button to enter the language mode.
4. Press the ▲/▼ button to select the desired language.

From this point on, the on-screen display will be presented in the language of your choice.

5. Press the **VOLUME (◀)** 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 memory or erase, you can manually memory or erase 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 AUTO PROGRAM button

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

1. Press the **AUTOPRG.** button.
2. Press the ▲ / ▼ button to select **TURBO** or **NORMAL**.
3. Press the ► or **AUTO PRG.** 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.

TURBO AUTO PROGRAM is further faster than **NORMAL AUTO PROGRAM**.

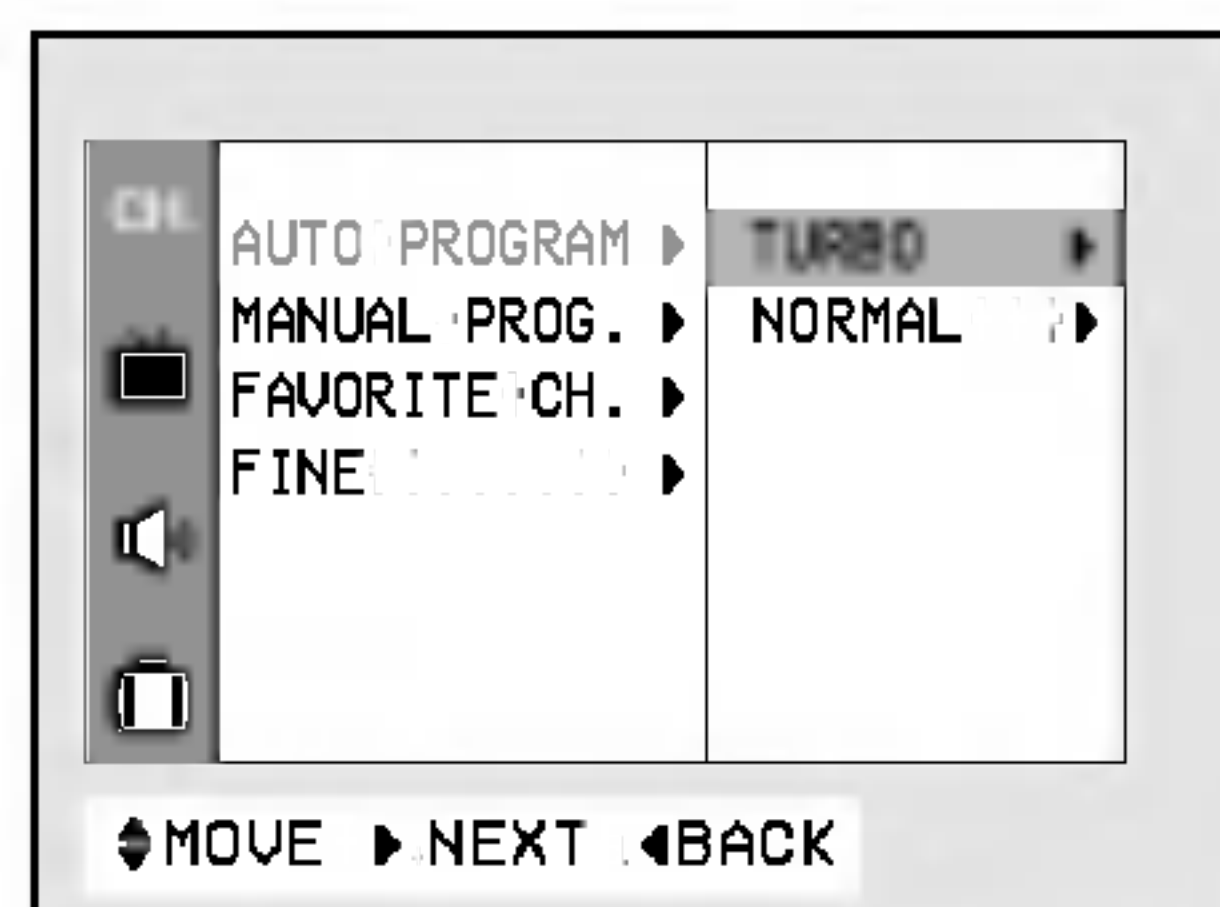
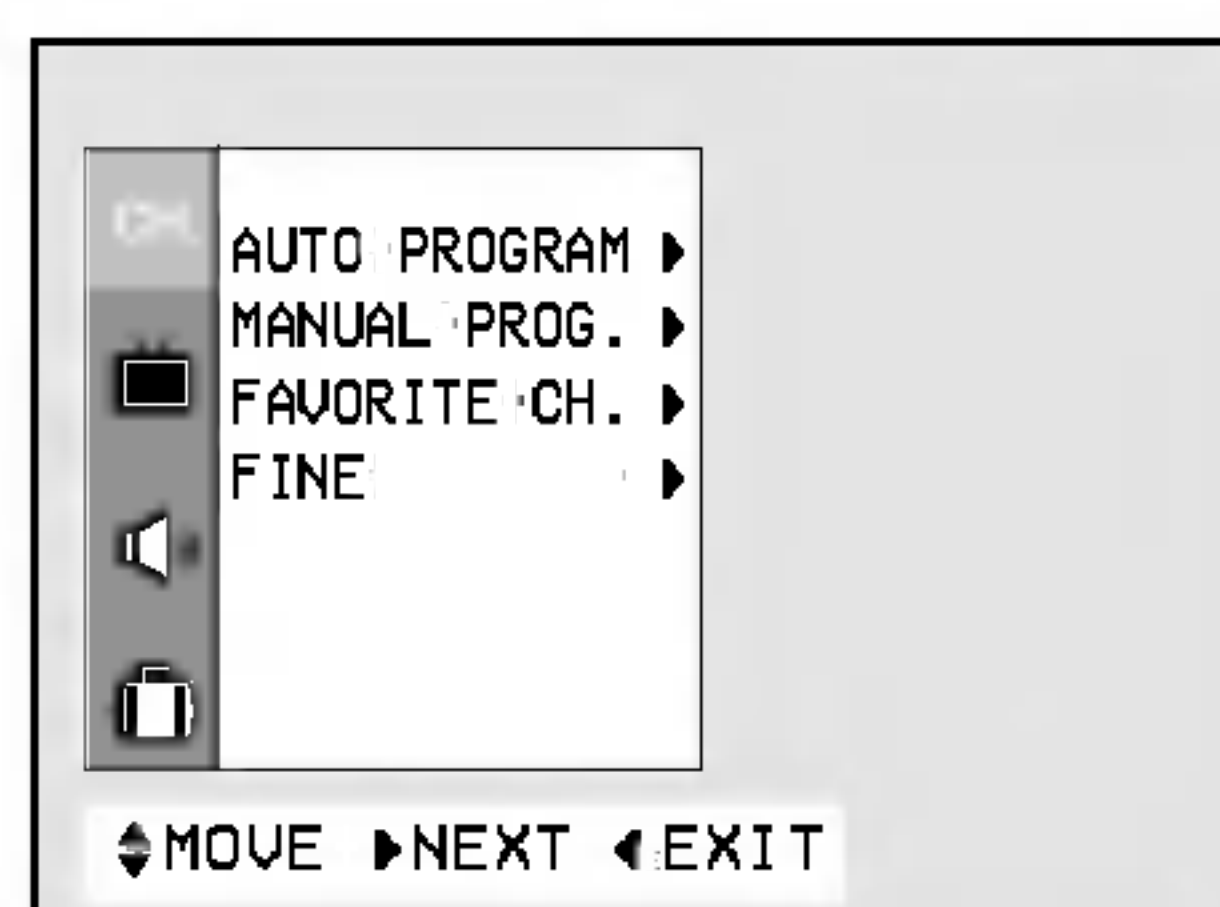
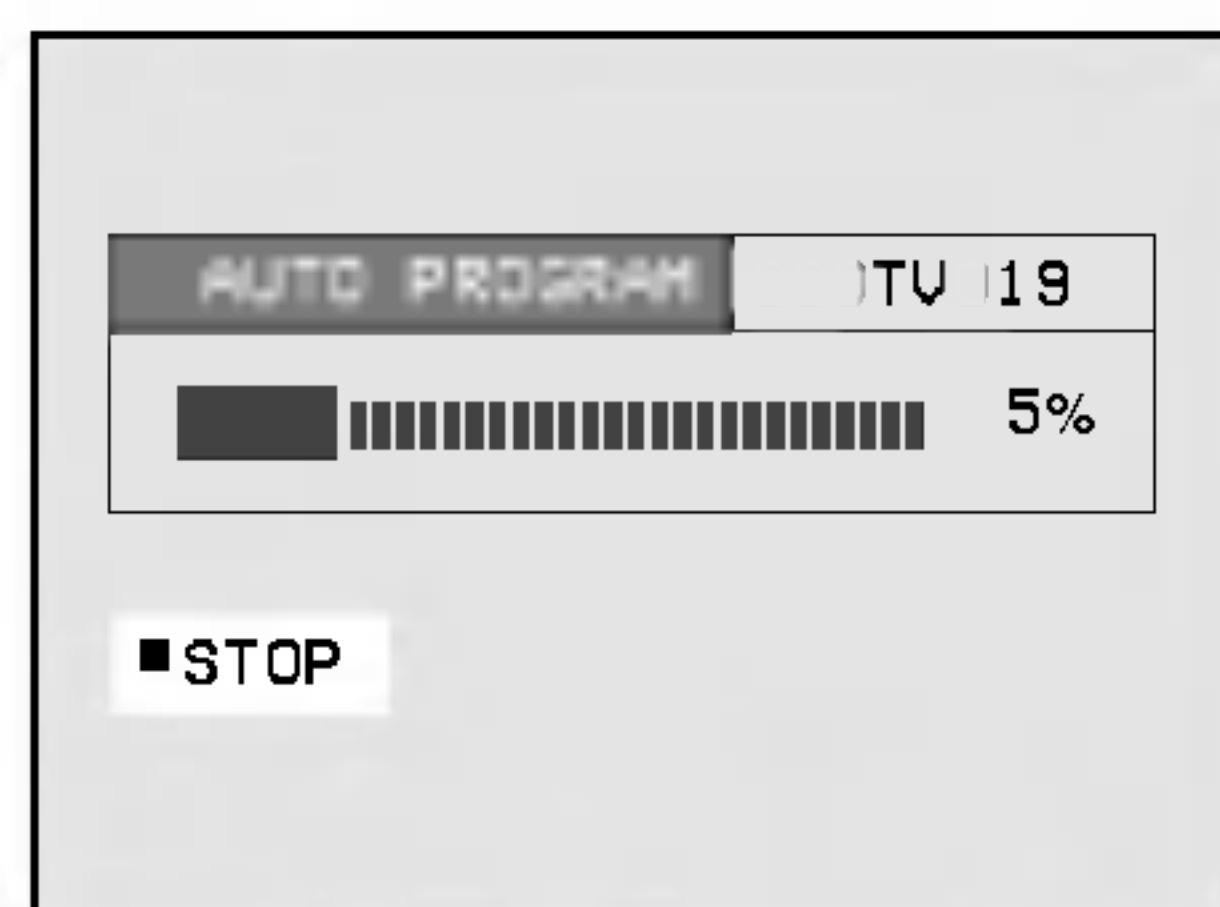
Notes : • If the programmed signal has poor quality, memorize again in the **NORMAL AUTO PROGRAM**.

- 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

channels of general wireless TV ↔ channels of cable TV

Using the MENU button

1. Press the **MENU** button and then ▲ / ▼ button the until the menu is displayed as shown right.
2. Press the ► and then ▲ / ▼ button to select **AUTO PROGRAM**.
3. Press the ► button to enter the **AUTO PROGRAM** mode.
4. Press the ▲ / ▼ button to select **TURBO** or **NORMAL**.
5. Press the ► button. The AUTO PROGRAM starts now.



Memorizing the Channels by MANUAL PROGRAM

Using the MEMORY/ERASE button (some models)

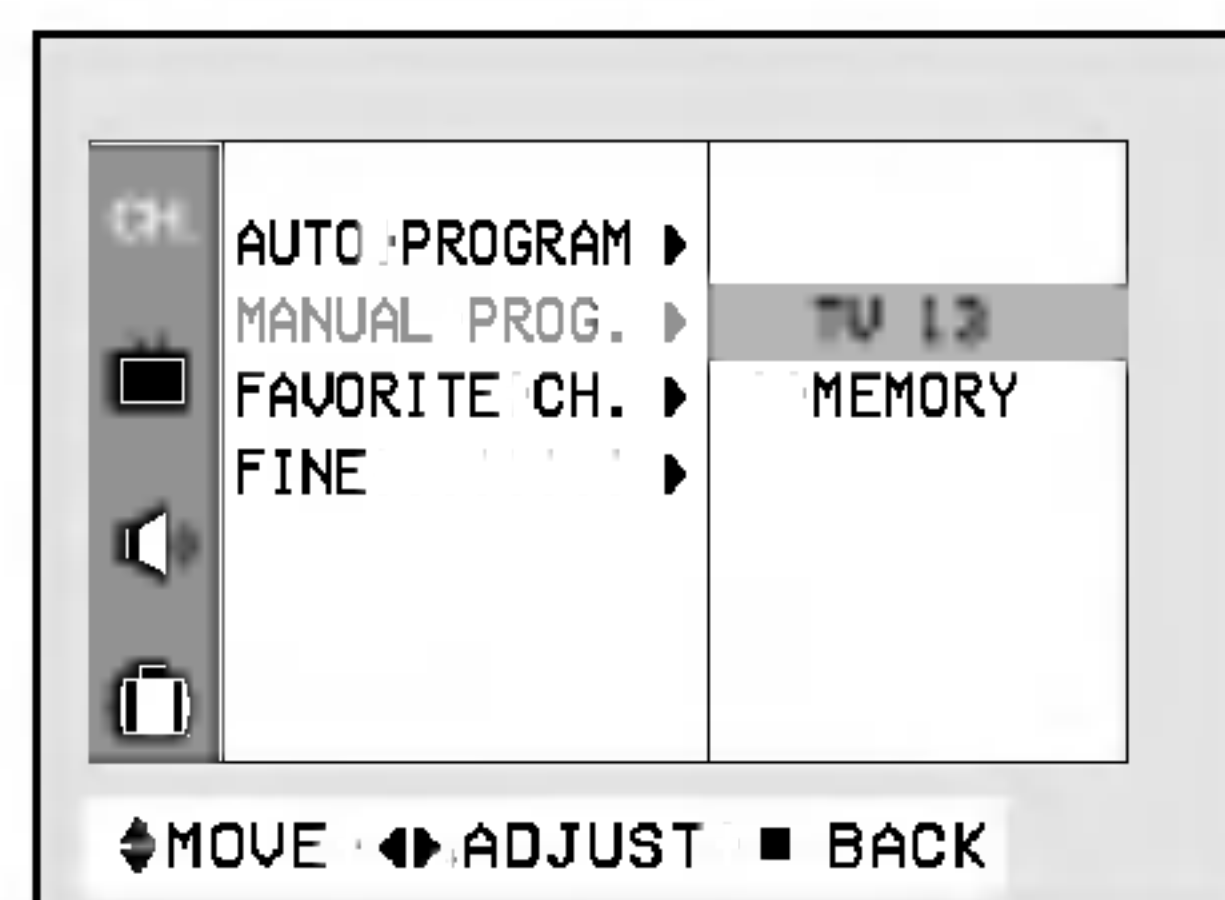
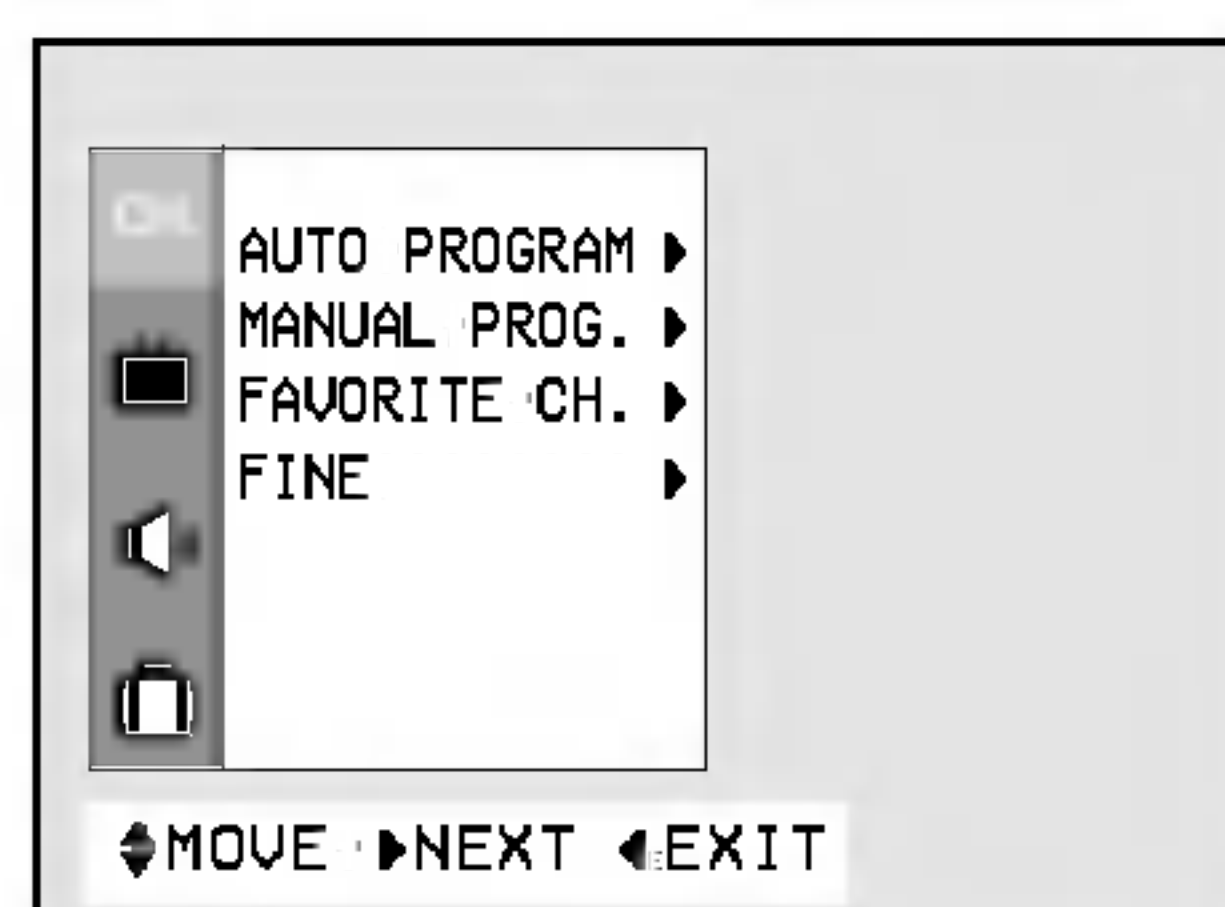
You can conveniently perform MANUAL PROGRAM using the **MEMORY / ERASE** button on the remote control.

1. Press the **▲ / ▼** or **NUMBER** buttons to select the channel number you want to memorize or erase.
2. Press the **MEMORY/ERASE** button.
The on screen display appears as shown right.
3. Press the **▲ / ▼** buttons to select the channel number you want to memorize or erase, then press the **◀ / ▶** or **MEMORY/ERASE** button to select **MEMORY** or **ERASE**.
4. Press the **ENTER (■)** button to exit.



Using the MENU button

1. Press the **MENU** button and then **▲ / ▼** button until the menu is displayed as shown right.
2. Press the **▶** and then **▲ / ▼** button to select **MANUAL PROG.**
3. Press the **▶** button to enter the **MANUAL PROG.** mode.
4. Press the **◀ / ▶** or **NUMBER** buttons to select the channel number you want to memorize or erase.
5. Press the **▲ / ▼** button.
6. Press the **◀ / ▶** button to select **MEMORY** or **ERASE**.
7. Repeat process 4 to 6 to memorize or erase another channels.
8. Press the **ENTER (■)** button to exit.



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.

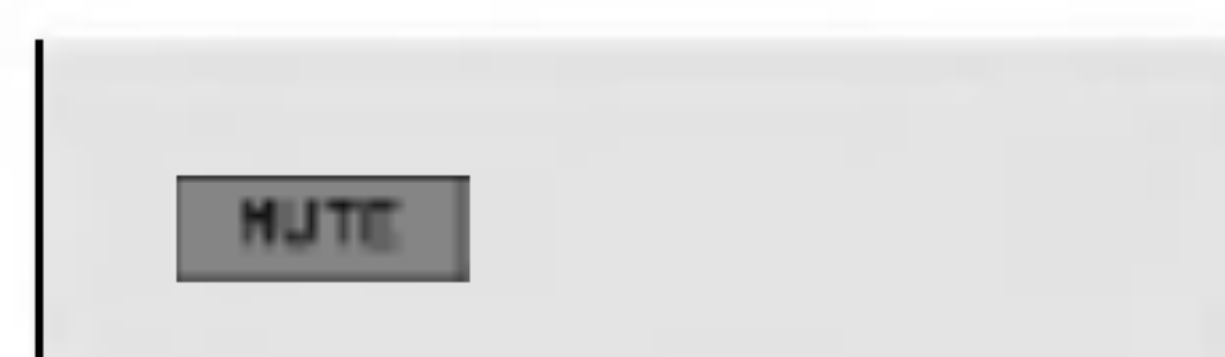
Adjusting the Volume

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

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

The word **MUTE** is displayed (It's not displayed in the Caption mode). It's convenient when you get the telephone calls.

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

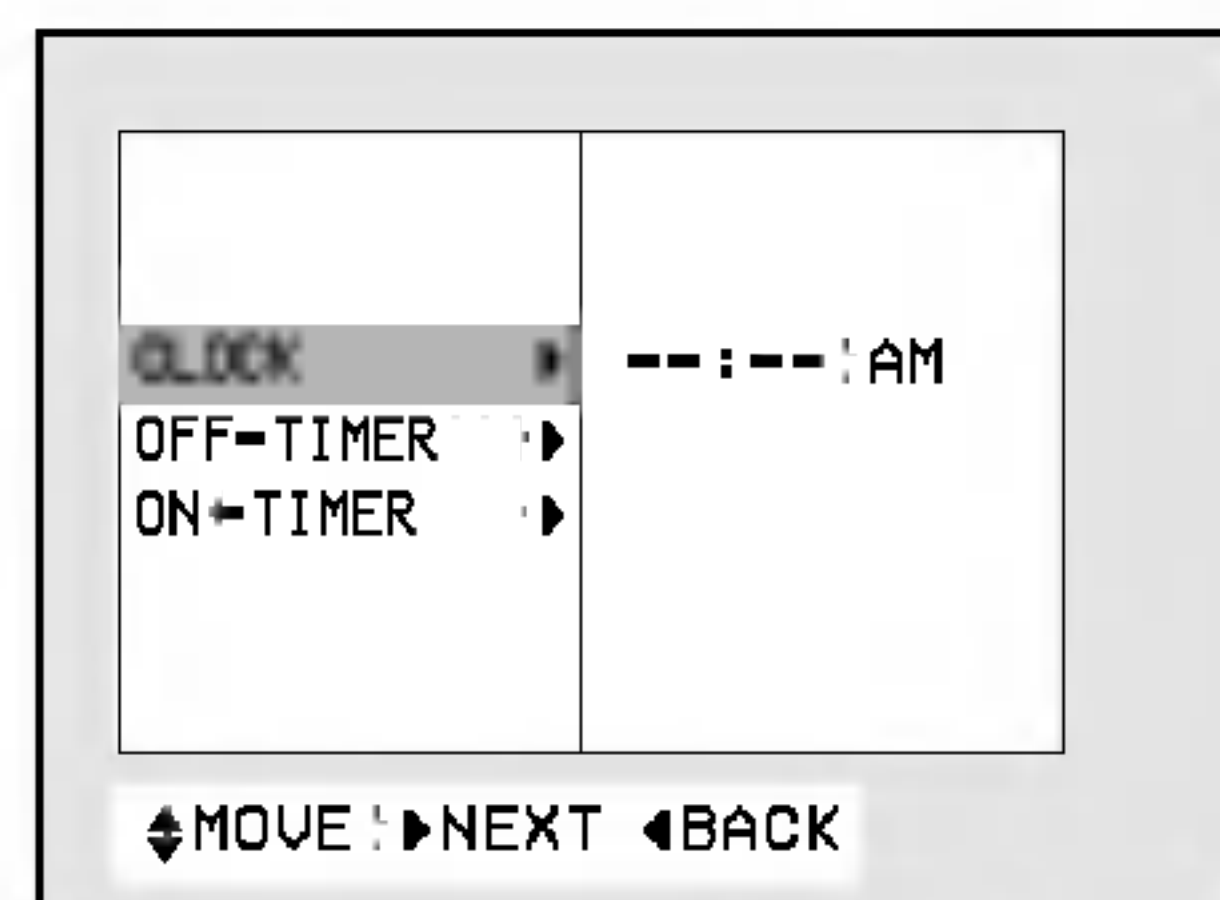
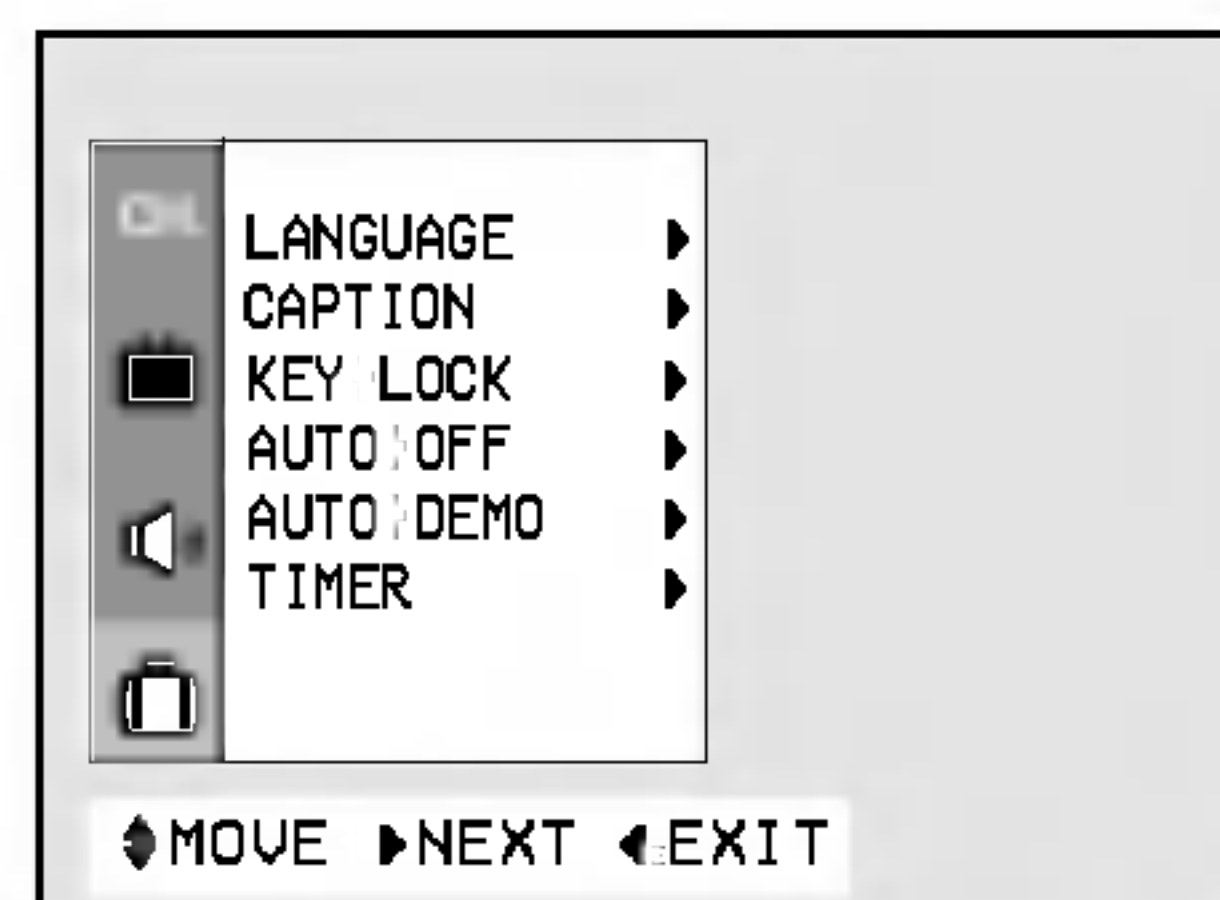


In case of stereo models

Setting the Clock

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

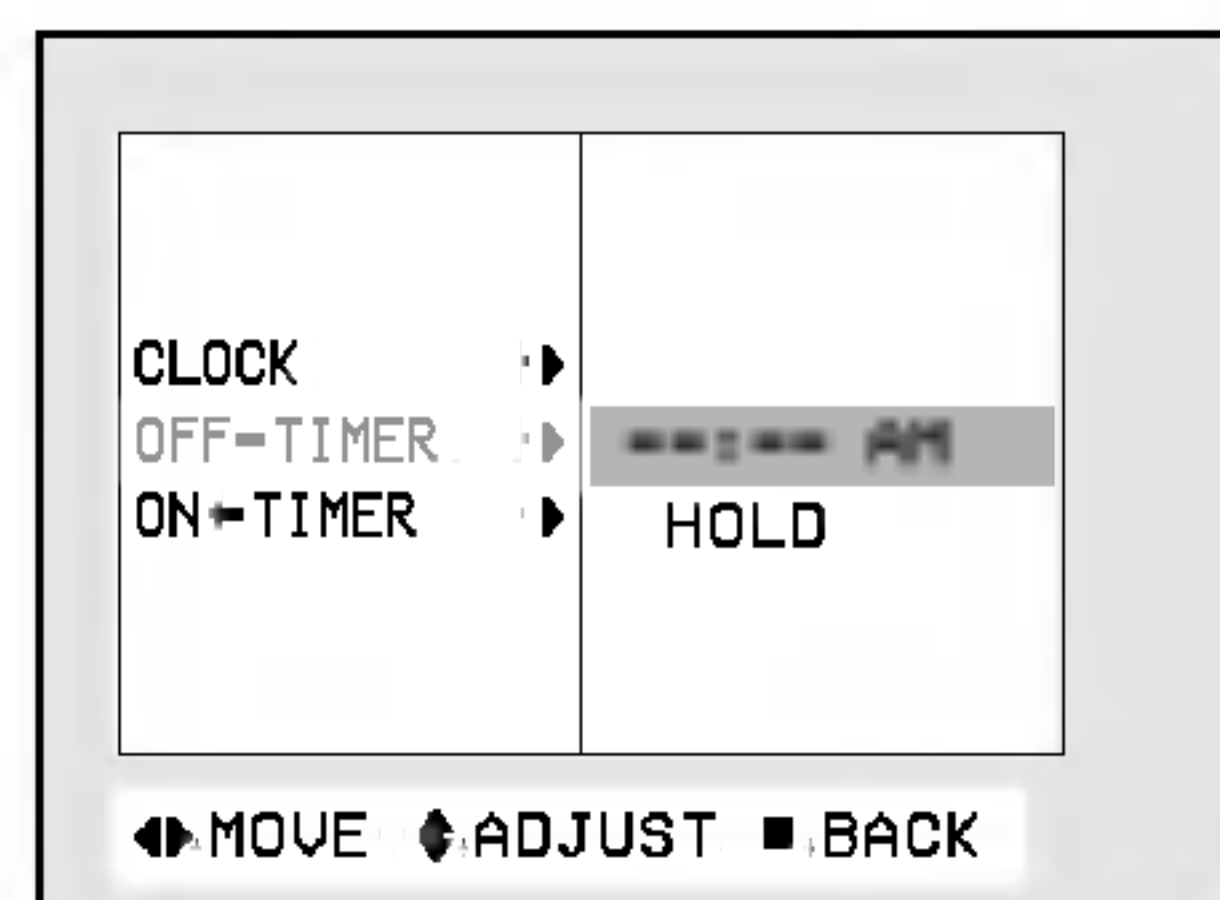
1. Press the **MENU** button and then **▲/▼** button the until the menu is displayed as shown right.
2. Press the **▶** and then **▲/▼** button to select **TIMER**.
3. Press the **▶** button to enter the **TIMER** mode.
4. Press the **▶** button.
5. Press the **▲/▼** button to adjust the hour.
6. Press the **▶** button to select the minute position and then press the **▲/▼** button to adjust the minute.
7. Press the **ENTER (■)** button to exit.



Setting the OFF TIMER

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

1. Press the **MENU** button and then **▲/▼** button the until the menu is displayed as shown right.
2. Press the **▶** and then **▲/▼** button to select **TIMER**.
3. Press the **▶** and then **▲/▼** button to select **OFF - TIMER**.
4. Press the **▶** and then **▲/▼** button to adjust the hour.
5. Press the **▶** button to select the minute position and then press the **▲/▼** button to adjust the minute.
6. **RUN/HOLD** is used to activate or deactivate preset on/off times. Press the **▶** button to select **HOLD** or **RUN** position and then press the **▲/▼** button to select **HOLD** or **RUN**.
7. Press the **ENTER (■)** button to exit.



Notes:

- If the same time is set for the on time and off time, only the off time operates.
- “SLEEP 1” will be displayed one minute before the set is due to switch off.

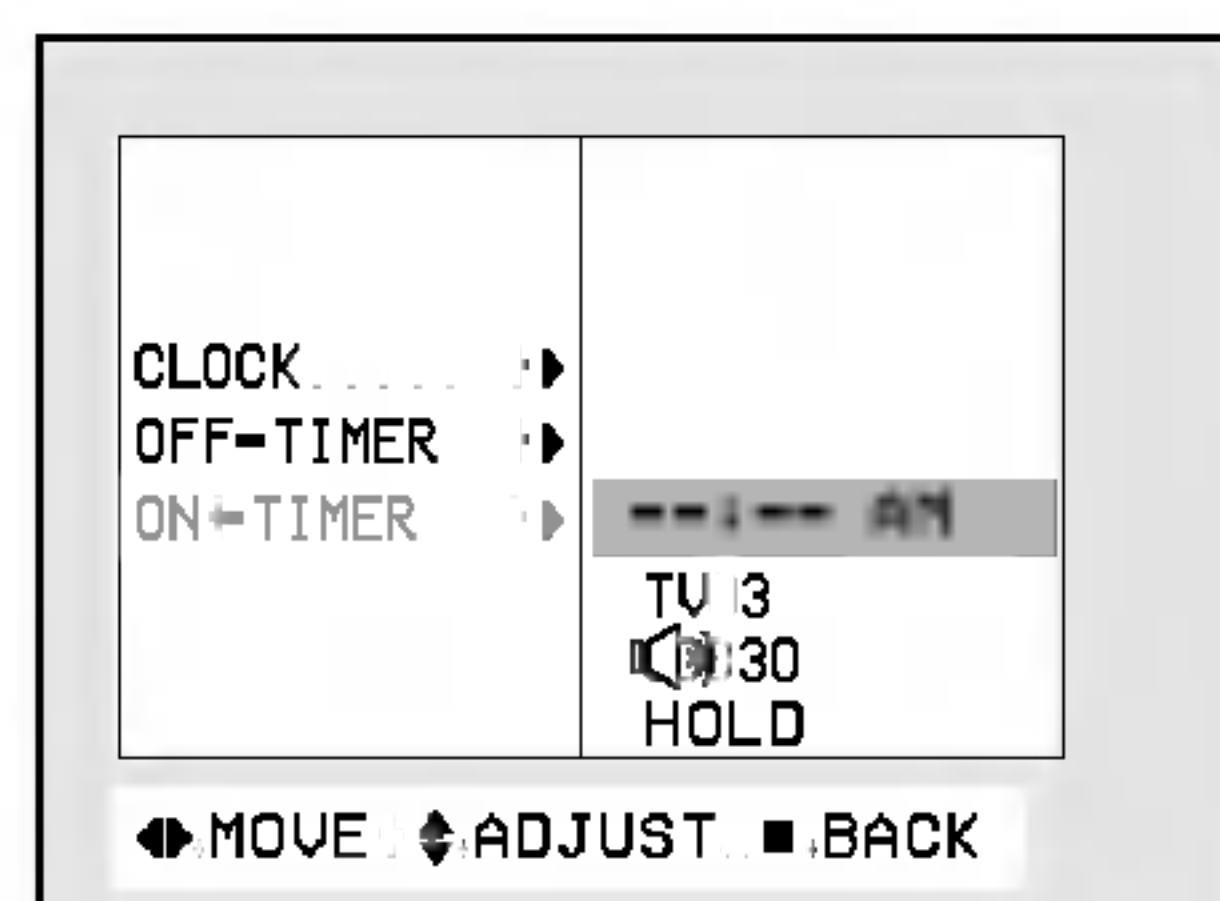
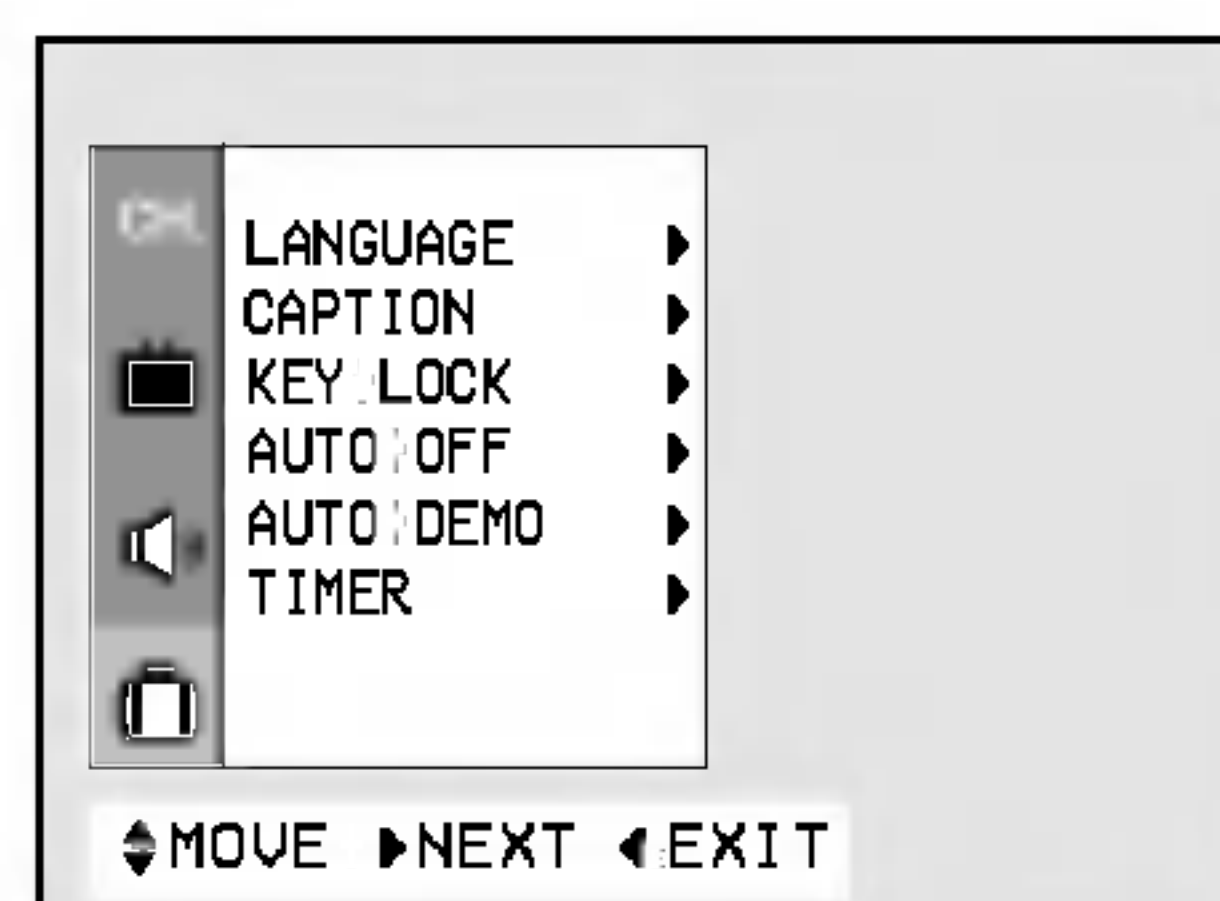
Setting the ON TIMER

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

1. Press the **MENU** button and then **▲/▼** button the until the menu is displayed as shown right.
2. Press the **▶** and then **▲/▼** button to select **TIMER**.
3. Press the **▶** and then **▲/▼** button to select **ON - TIMER**.
4. Repeat OFF TIMER process 4 to 5.
5. Press the **▶** button to select the channel position and then press the **▲/▼** button to select the desired channel among the memorized channels in auto program or manual program.
6. Press the **▶** button to select the volume and then press the **▲/▼** button to adjust the desired volume level.
7. **RUN/HOLD** is used to activate or deactivate preset on/off times. Press the **▶** button to select **HOLD** or **RUN** position and then press the **▲/▼** button to select **HOLD** or **RUN**.
8. Press the **ENTER (■)** button to exit.

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.

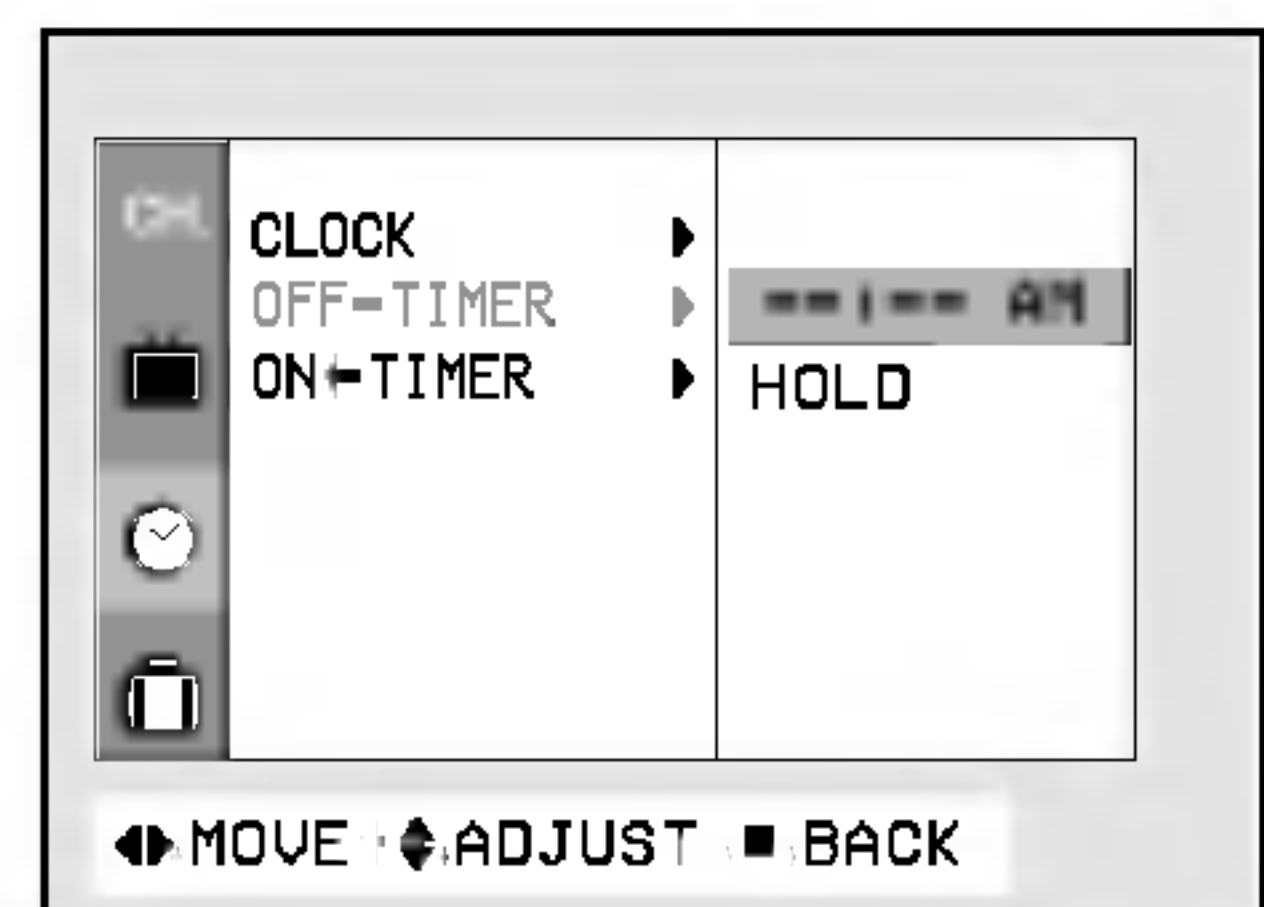
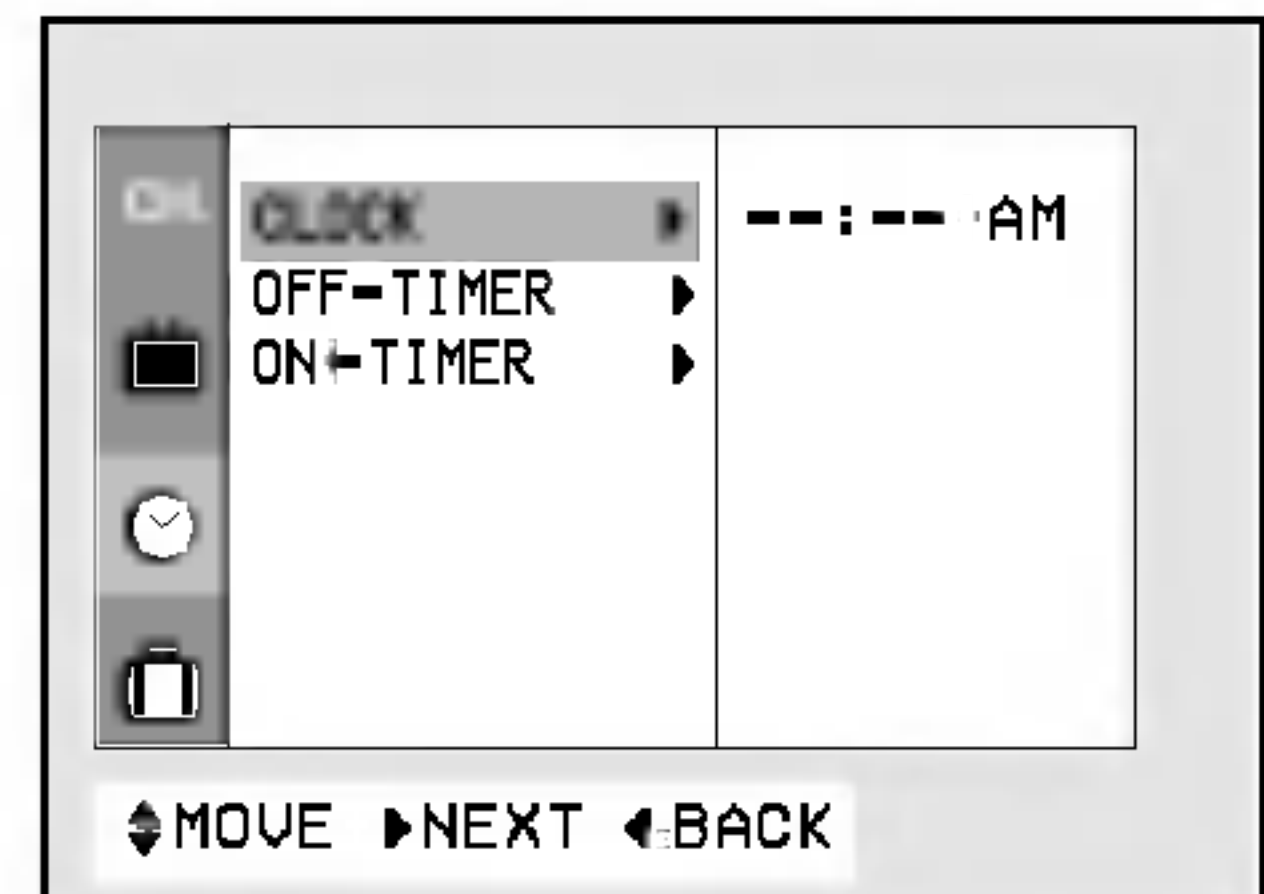
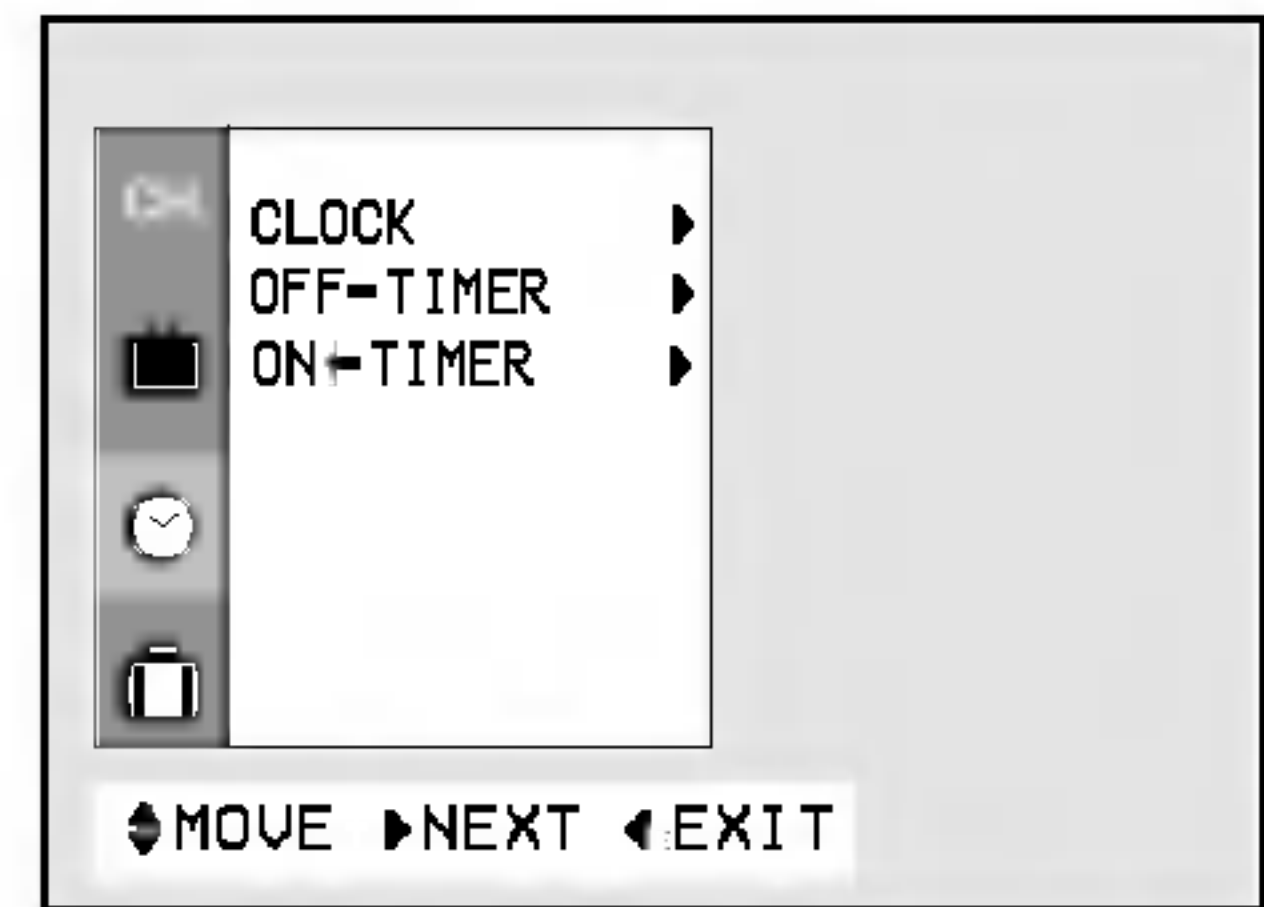


In case of mono models

Setting the Clock

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

1. Press the **MENU** button and then **▲/▼** button the until the menu is displayed as shown right.
2. Press the **▶** and then **▲/▼** button to select **CLOCK**.
3. Press the **▶** button to enter the **CLOCK** mode.
4. Press the **▲/▼** button to adjust the hour.
5. Press the **▶** button to select the minute position and then press the **▲/▼** button to adjust the minute.
6. Press the **ENTER (■)** button to exit.



Setting the OFF TIMER

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

1. Press the **MENU** button and then **▲/▼** button the until the menu is displayed as shown right.
2. Press the **▶** and then **▲/▼** button to select **OFF - TIMER**.
3. Press the **▶** and then **▲/▼** button to adjust the hour.
4. Press the **▶** button to select the minute position and then press the **▲/▼** button to adjust the minute.
5. **RUN/HOLD** is used to activate or deactivate preset on/off times. Press the **▶** button to select **HOLD** or **RUN** position and then press the **▲/▼** button to select **HOLD** or **RUN**.
6. Press the **ENTER (■)** button to exit.

Notes:

- If the same time is set for the on time and off time, only the off time operates.
- “SLEEP 1” will be displayed one minute before the set is due to switch off.

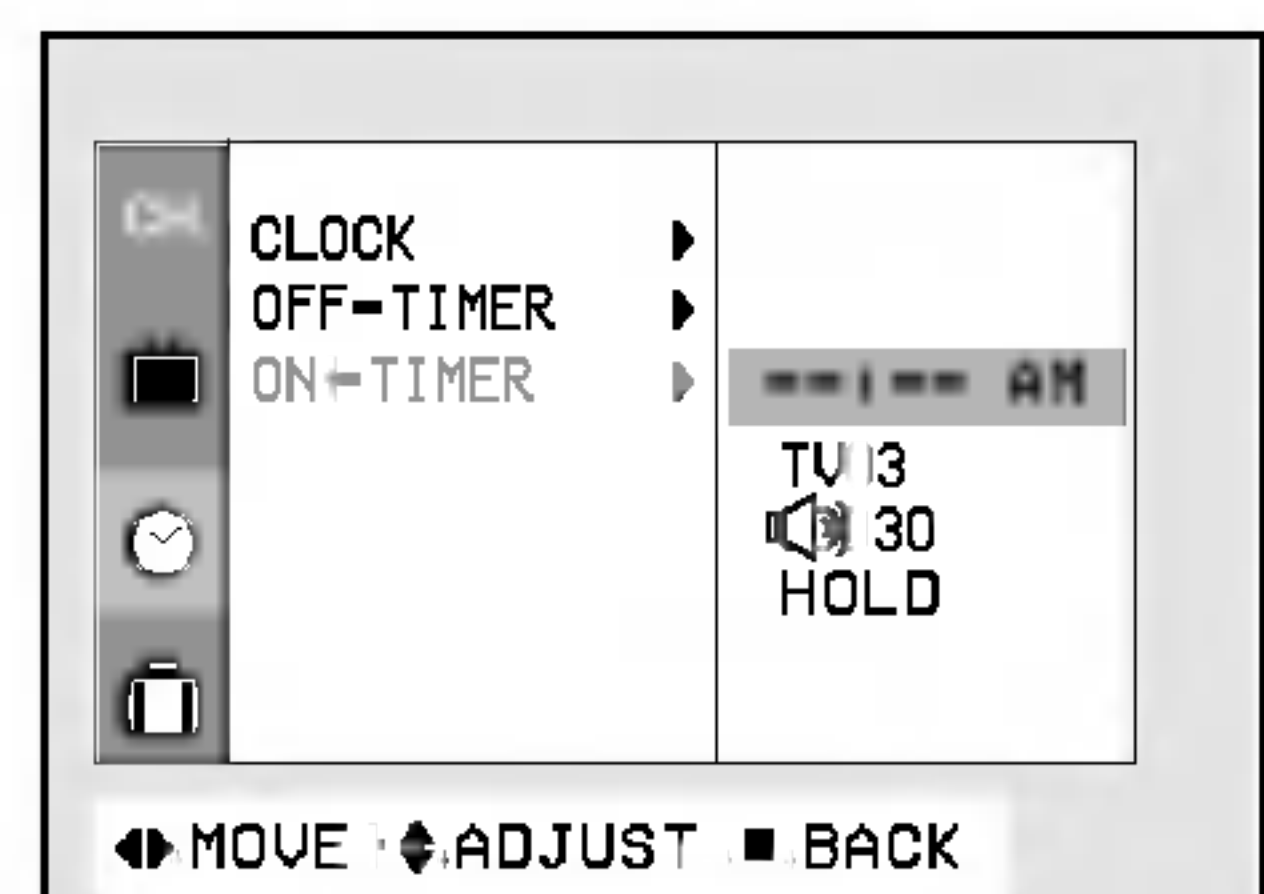
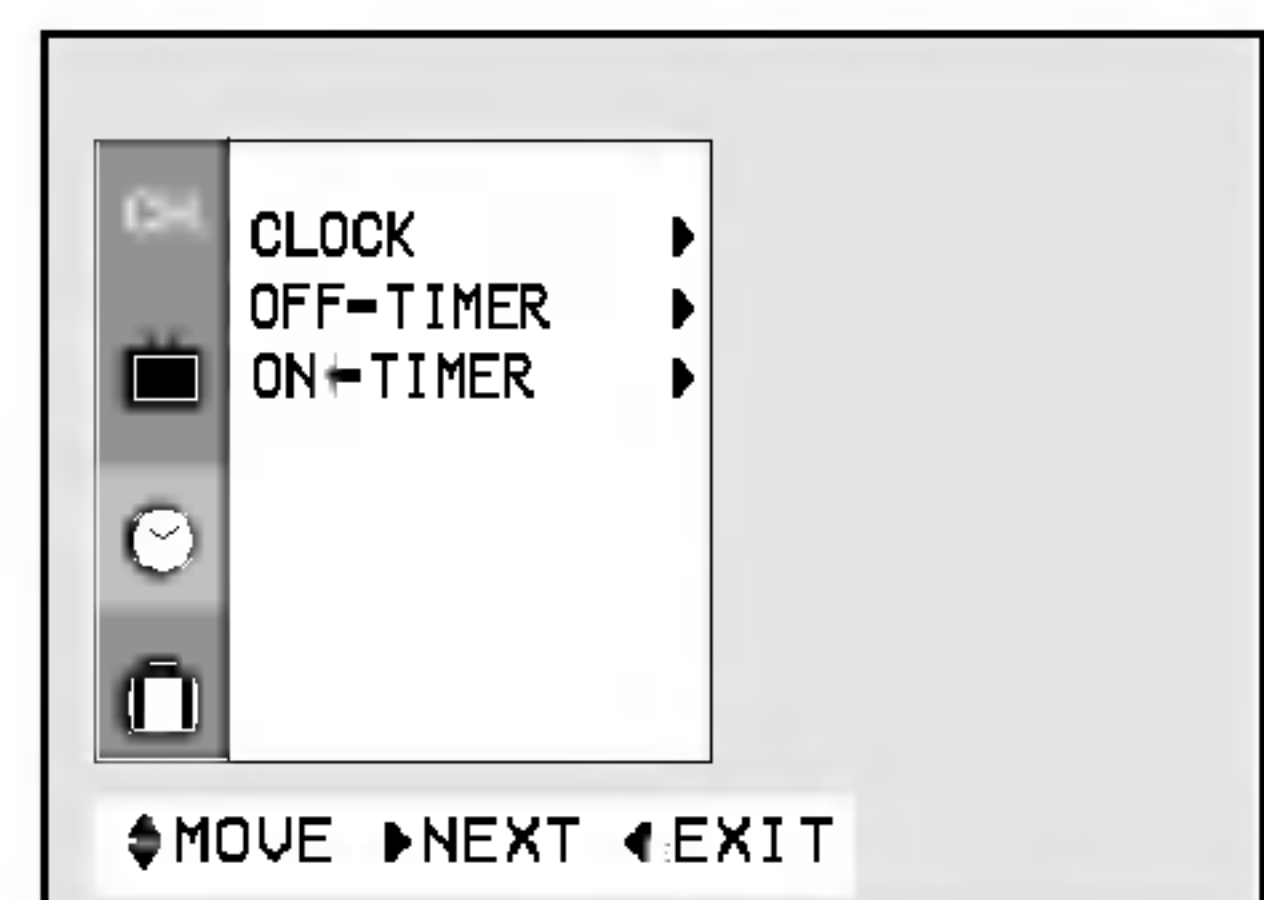
Setting the ON TIMER

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

1. Press the **MENU** button and then **▲/▼** button the until the menu is displayed as shown right.
2. Press the **▶** and then **▲/▼** button to select **ON - TIMER**.
3. Repeat OFF TIMER process 3 to 4.
4. Press the **▶** button to select the channel position and then press the **▲/▼** button to select the desired channel among the memorized channels in auto program or manual program.
5. Press the **▶** button to select the volume and then press the **▲/▼** button to adjust the desired volume level.
6. **RUN/HOLD** is used to activate or deactivate preset on/off times. Press the **▶** button to select **HOLD** or **RUN** position and then press the **▲/▼** button to select **HOLD** or **RUN**.
7. Press the **ENTER (■)** button to exit.

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.

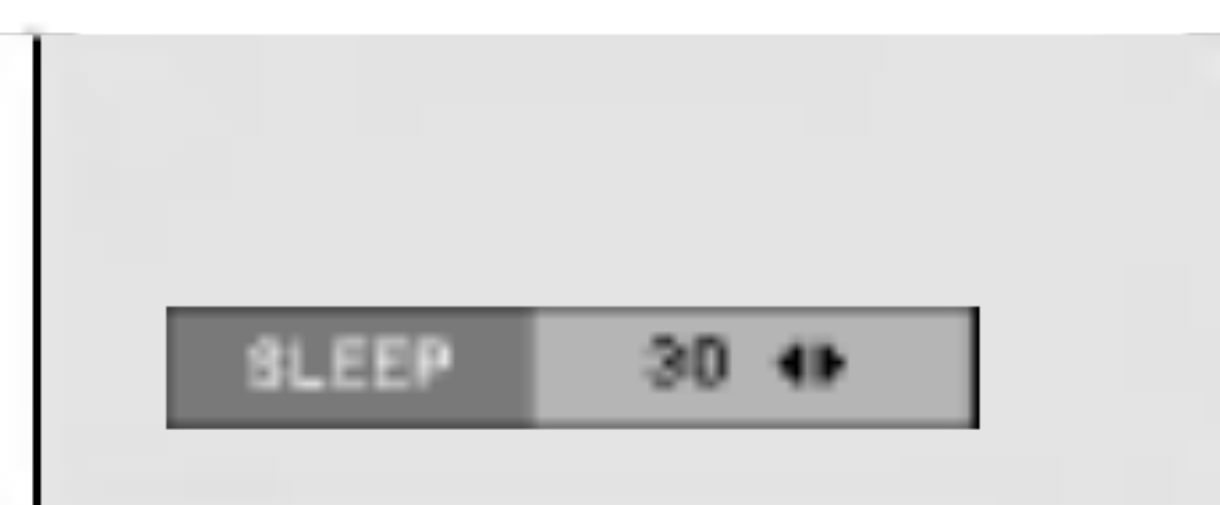
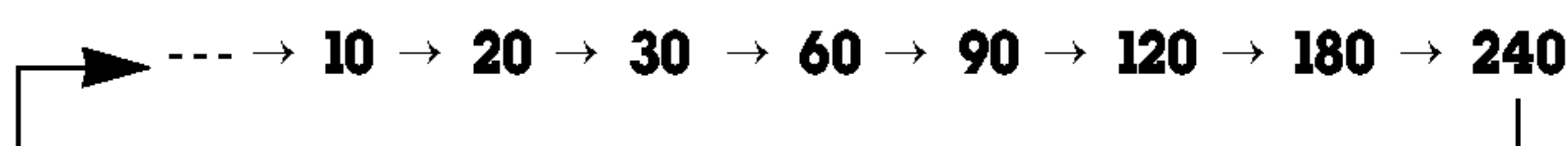


Setting the Sleep Time

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.



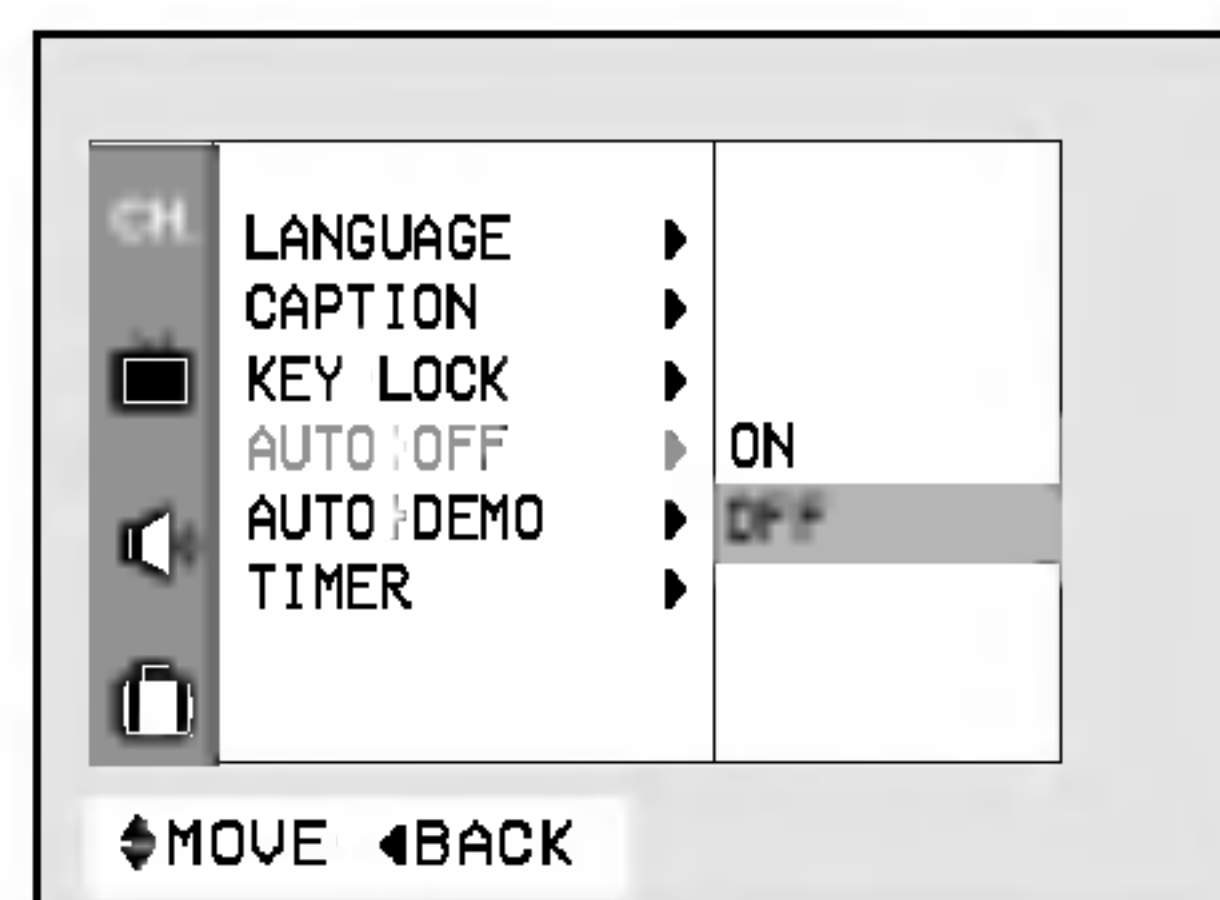
Notes: • After a few seconds, the desired sleep time will disappear and be operated automatically.

- 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** or **◀/▶** button.
- "SLEEP 1" will be displayed one minute before the set is due to switch off.

Auto Off

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

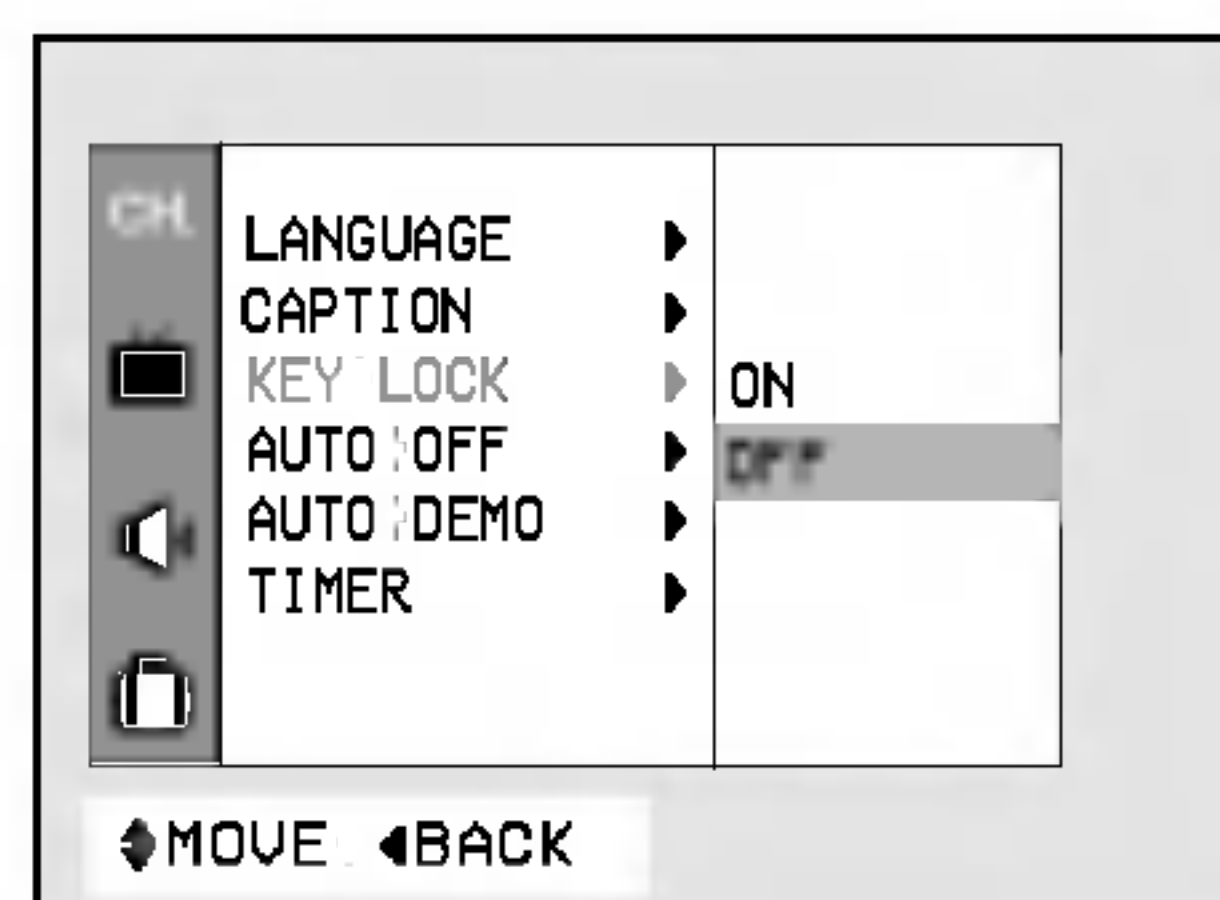
1. Press the **MENU** button and then **▲/▼** button the until the menu is displayed as shown right.
2. Press the **▶** and then **▲/▼** button to select **AUTO OFF**.
3. Press the **▶** button to enter the **AUTO OFF** mode.
4. Press the **▲/▼** button to select **ON** or **OFF**.
5. Press the **VOLUME (◀)** button to exit.



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.

1. Press the **MENU** button and then **▲/▼** button the until the menu is displayed as shown right.
2. Press the **▶** and then **▲/▼** button to select **KEY LOCK**.
3. Press the **▶** button to enter the **KEY LOCK** mode.
4. Press the **▲/▼** button to select **ON** or **OFF**.
5. Press the **VOLUME (◀)** button to exit.



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.

Note: • This programmed to remember which option it was last set to even if you switch the TV from standby mode.



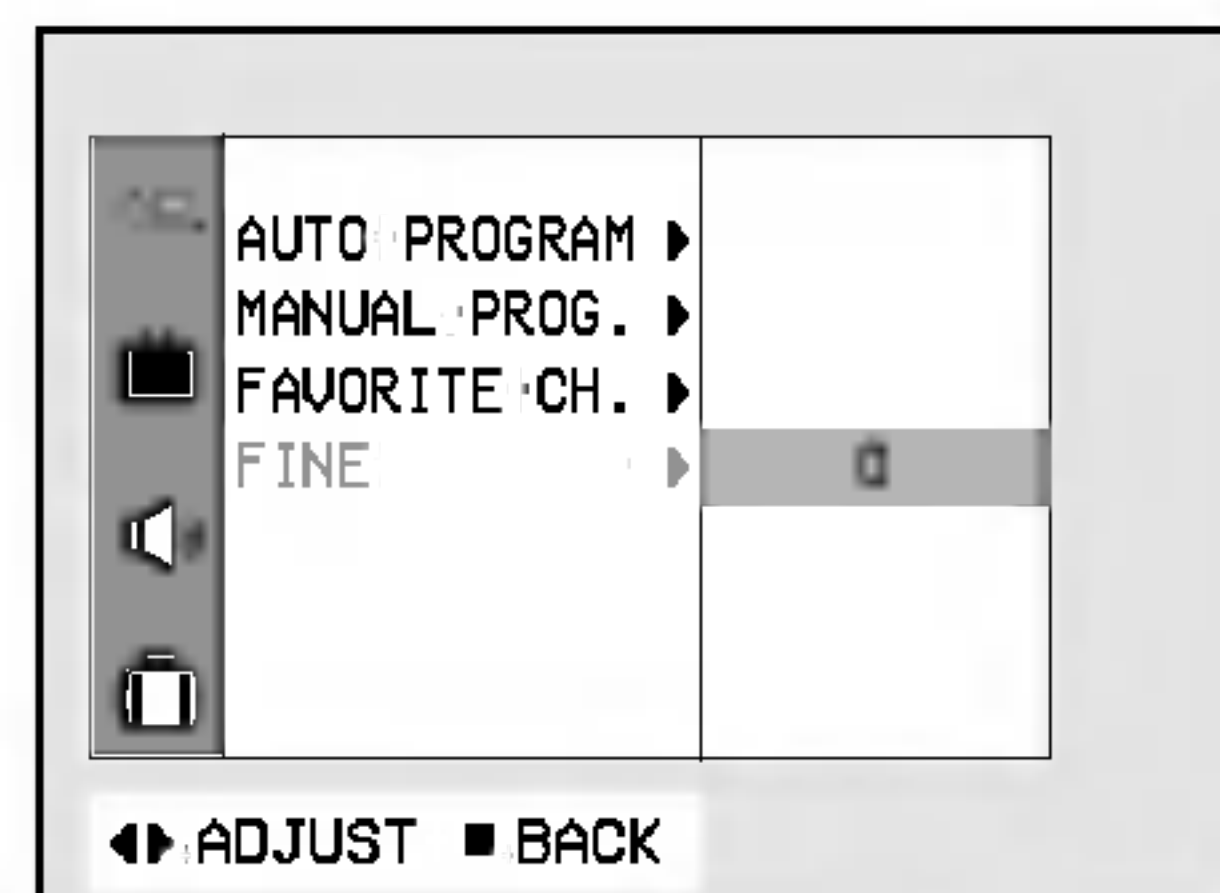
Adjusting the Fine Tuning

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 broadcasting.

1. Press the **MENU** button and then **▲/▼** button the until the menu is displayed as shown right.
2. Press the **▶** and then **▲/▼** button to select **FINE**.
3. Press the **▶** button to enter the **FINE** mode.
4. Press the **◀/▶** button to tune the desired picture condition.
5. Press the **ENTER (■)** button to memorize.

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.

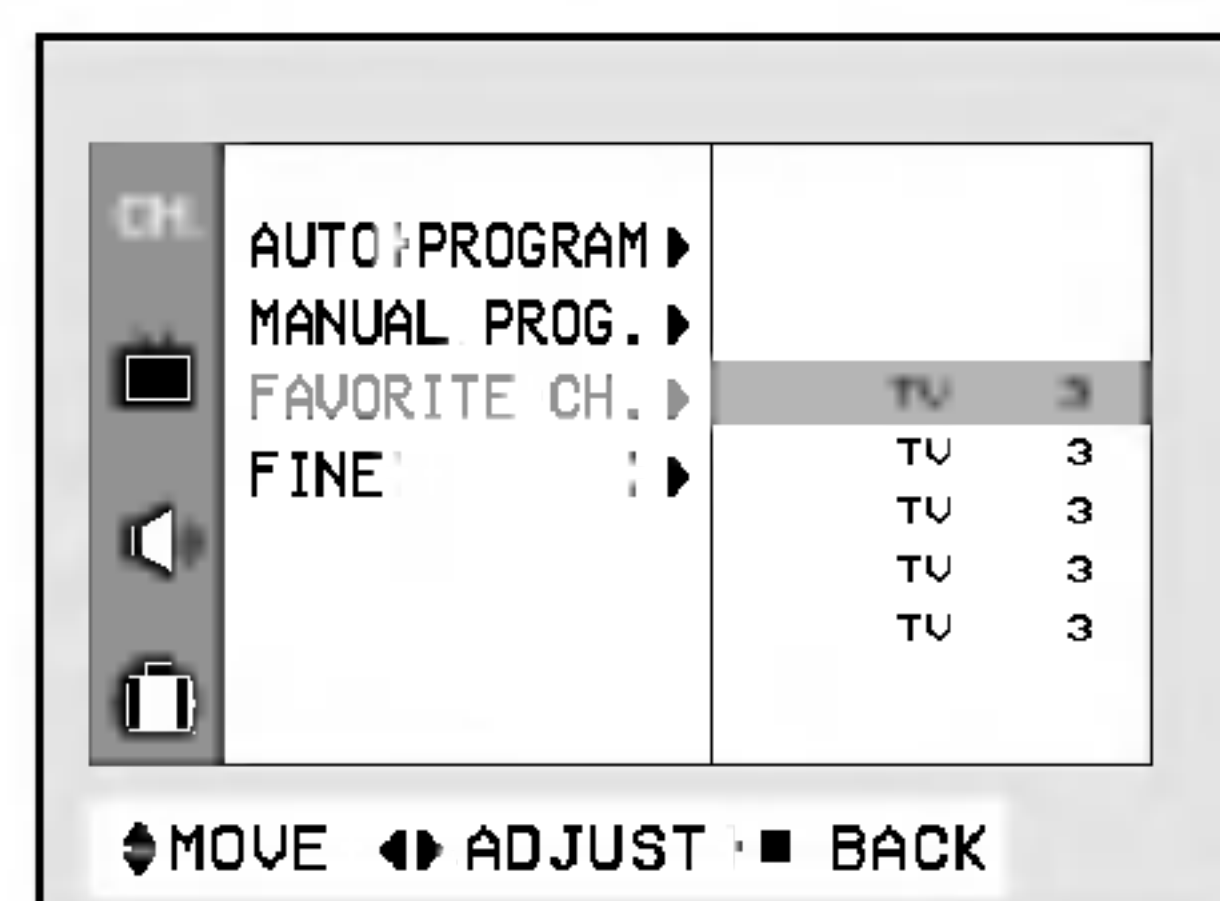
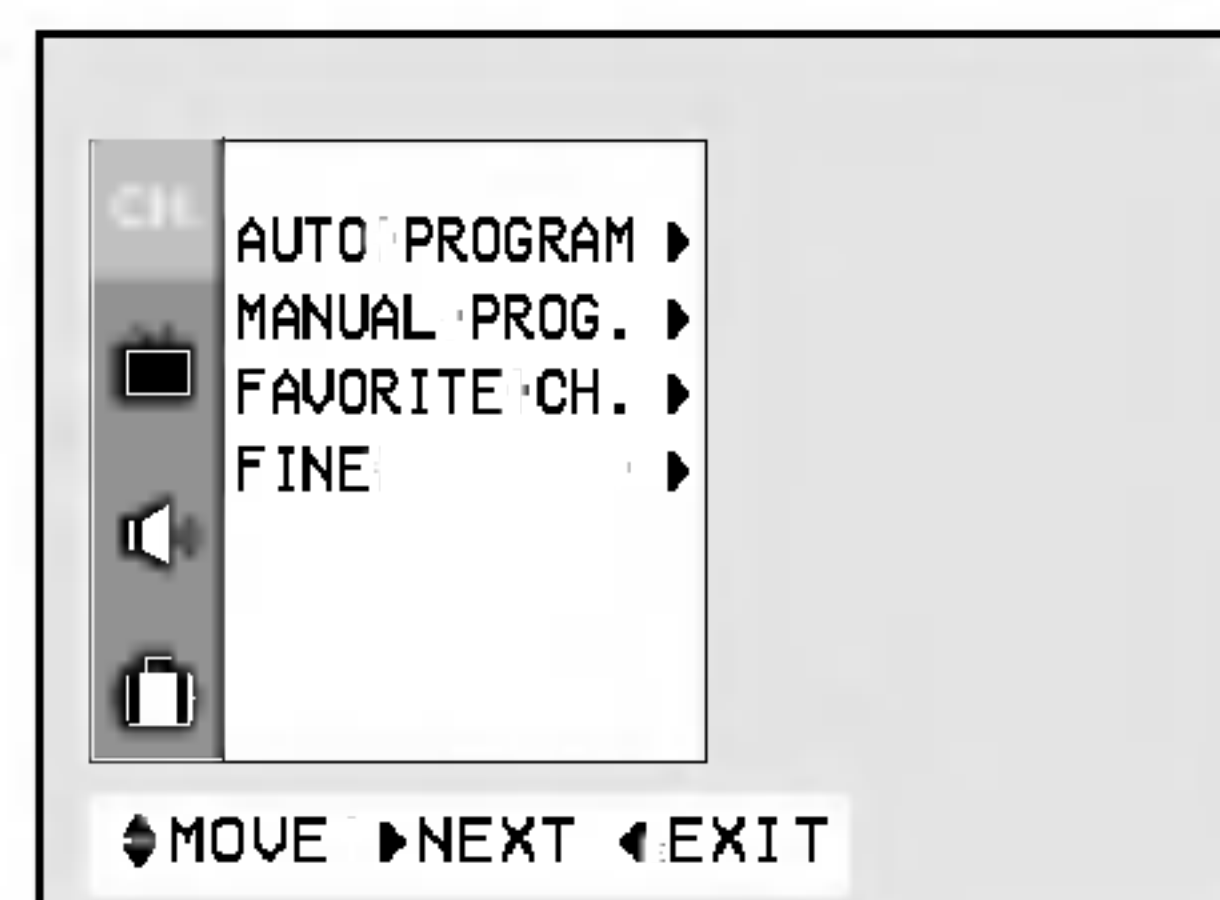


Favorite channel memory

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.

1. Press the **MENU** button and then **▲/▼** button the until the menu is displayed as shown right.
2. Press the **▶** and then **▲/▼** button to select **FAVORITE CH.**
3. Press the **▶** button to enter the **FAVORITE CH.** mode.
4. Press the **▲/▼** button to select a favorite channel.
5. Press the **◀/▶** button to select the desired channel number.
6. Repeat steps 4 to 5.
7. Press the **ENTER (■)** button to exit.

To select the favorite channel, repeatedly press the **FCR** (Favorite Channel Review) button. Five channels programmed appear on the screen one by one.



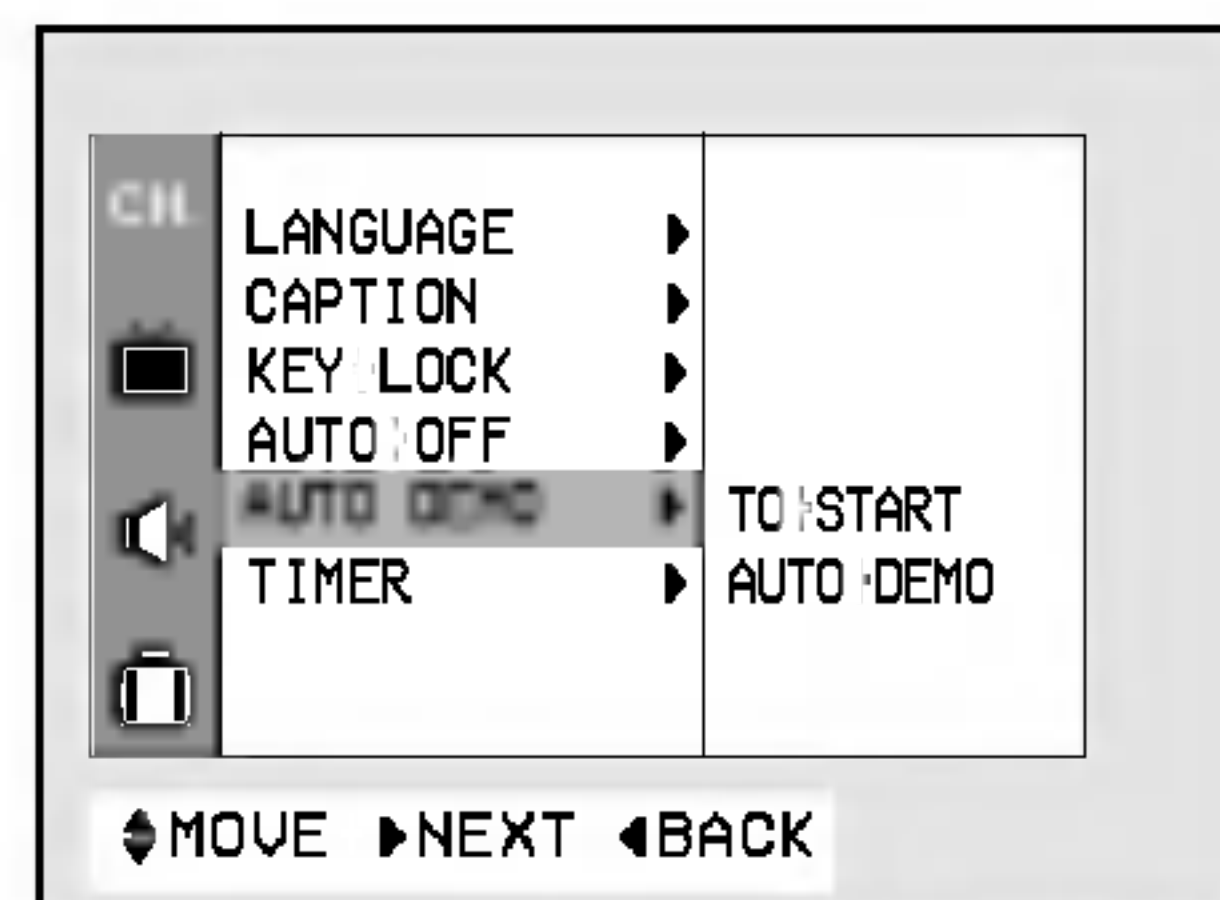
Auto Demonstration

Auto demonstration allows you to review all the menus programmed in the TV set.

1. Press the **MENU** button and then ▲/▼ button the until the menu is displayed as shown right.
2. Press the ► and then ▲/▼ button to select **AUTO DEMO**.
3. Press the ► button, and the demonstration starts.

When the demonstration reaches the last display, it starts again from the beginning.

To stop auto demonstration, press any button.



Wide / Zoom Picture (some models)

You can select the desired picture format (4:3, 16:9 or zoom).

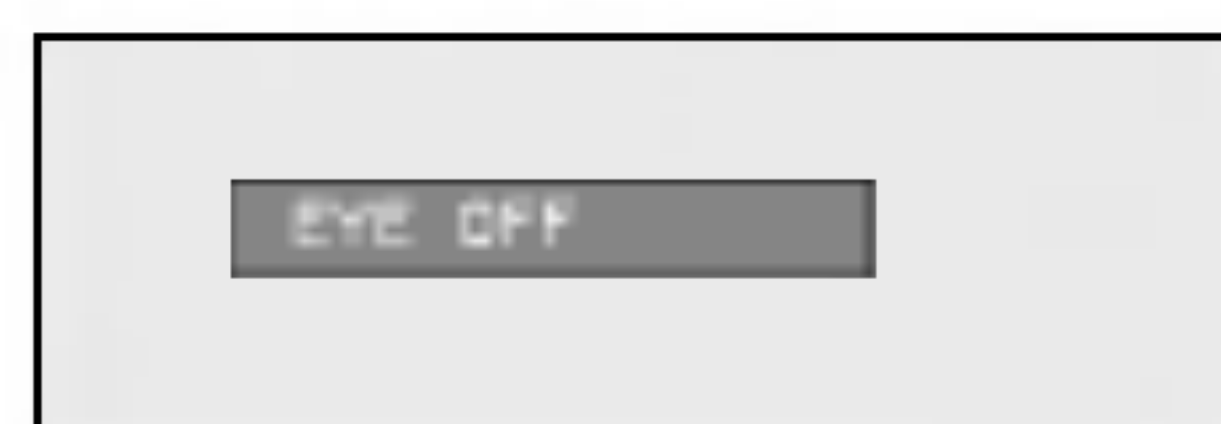
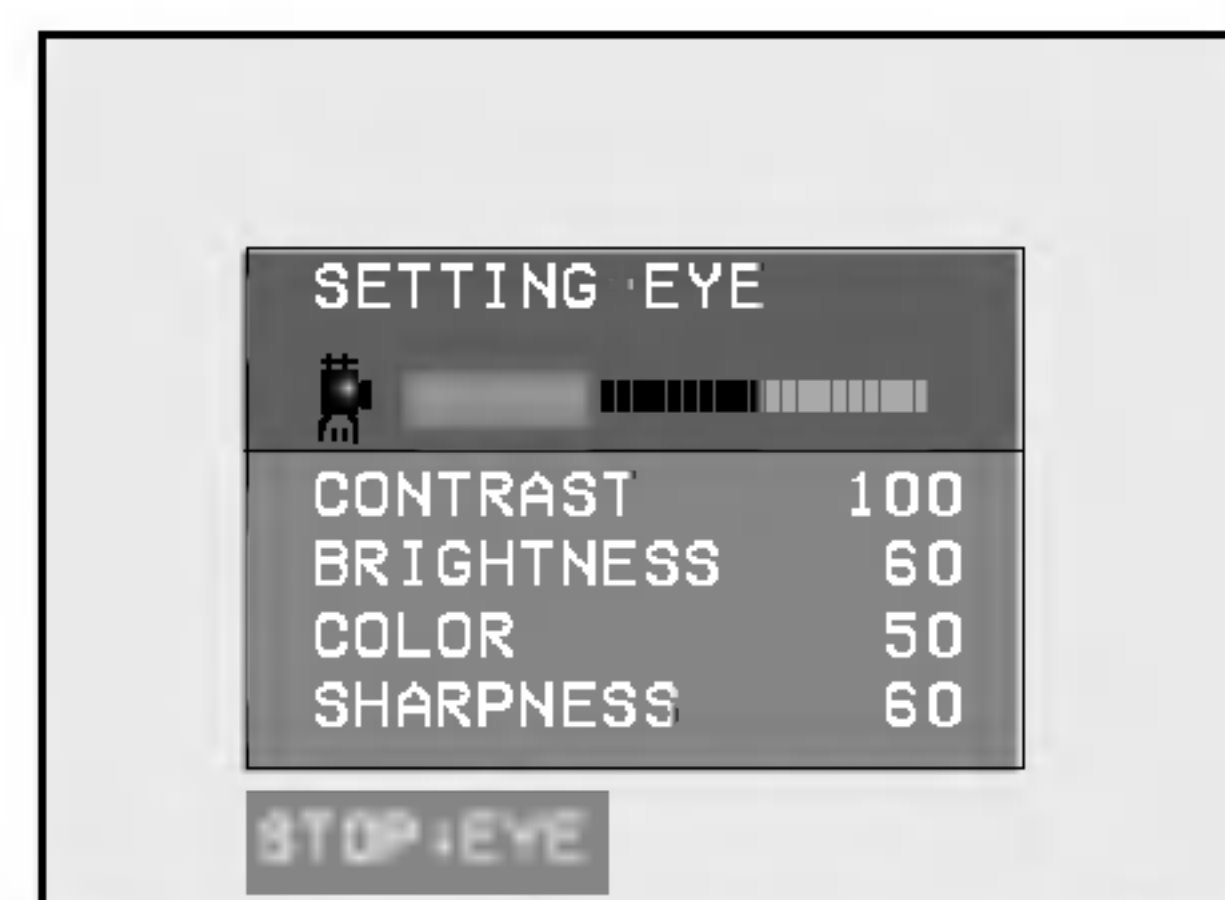
- 4:3: This picture format is 4 to 3 of general TV.
- 16:9 : This is the cinema screen picture format.
The screen 16:9 is viewed just like that the screen 4:3 is magnified to the left and right so that the screen 16:9 is full.
- ZOOM : The screen 4:3 is magnified to the upper/lower and left/right sides so that the screen 16:9 is full. The bottom and top of the picture may be lost.

1. Press the **WIDE/ZOOM** button to select your desired picture format.

Enjoying the Eye Function (some models)

The set will automatically adjust the picture according to the surrounding conditions with the display **SETTING EYE**.

1. Press the **EYE** button on the remote control.
The display **SETTING EYE** appears and the picture is adjusted.
2. Press the **EYE** button again to switch the Eye function off.



Auto Picture Control (some models)

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

Using the APC button

1. Press the **APC** button.
2. Press the ◀ / ▶ or **APC** button to select **MAGIC EYE**, **CLEAR**, **OPTIMUM**, **SOFT** or **USER**.
3. Press the **ENTER** (■) button to exit.



Adjusting the Picture

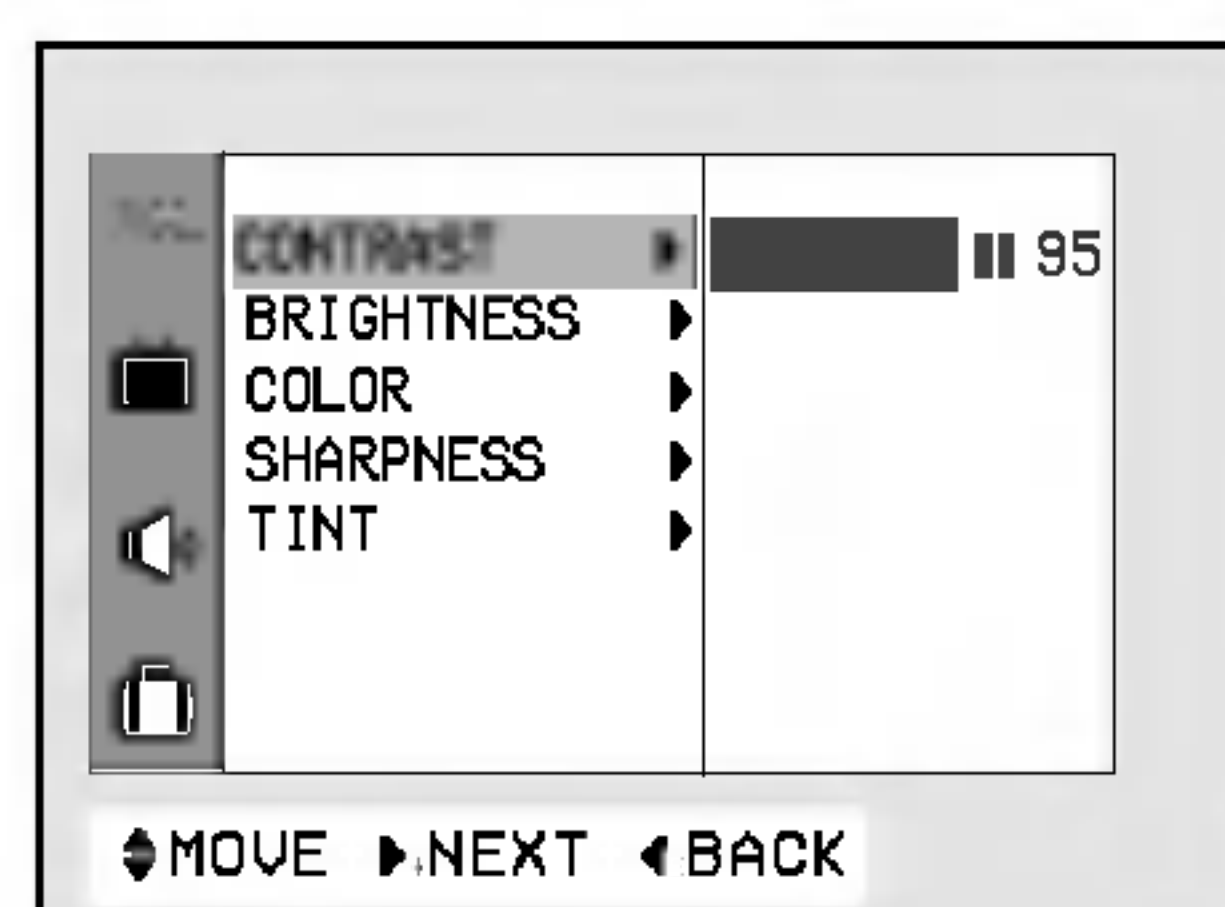
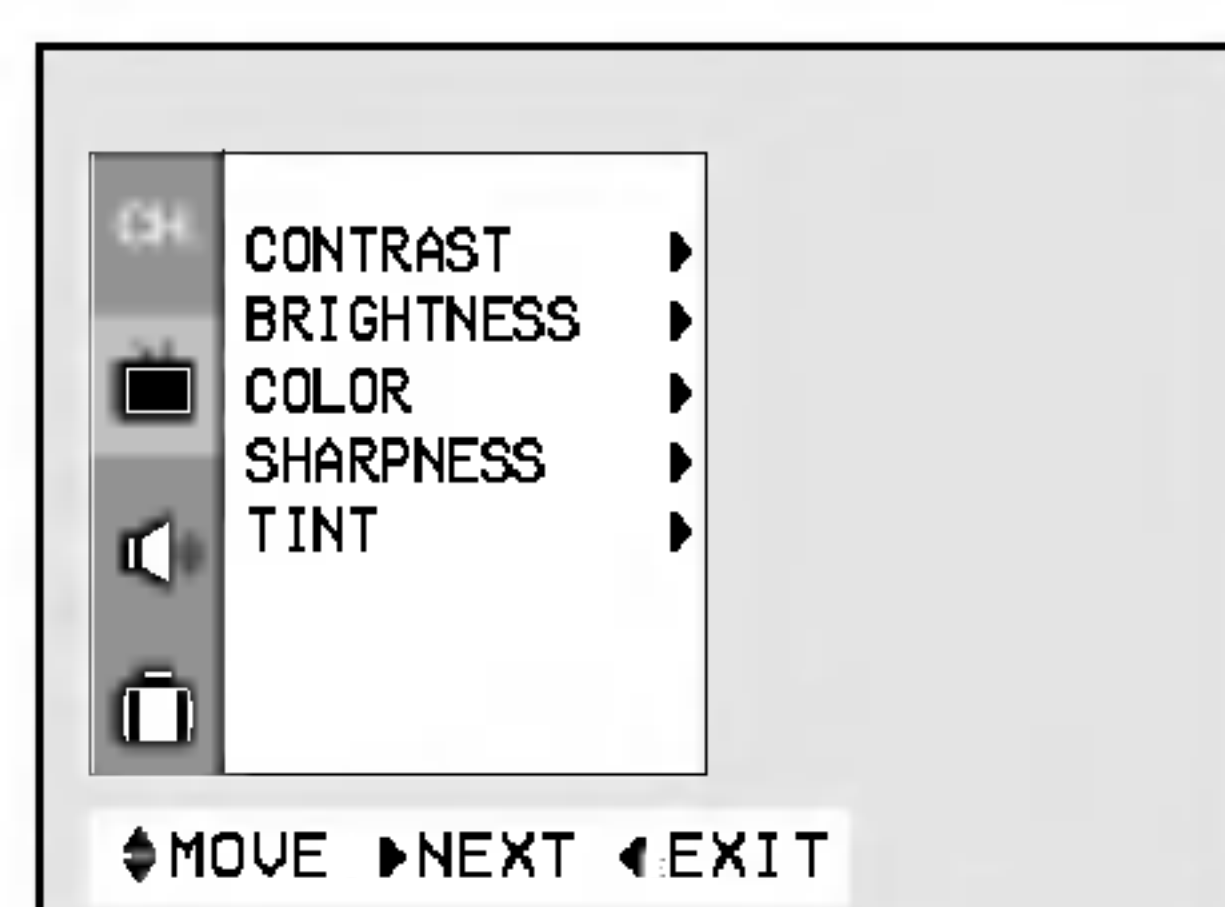
This is the function to manually adjust the desired picture levels (**CONTRAST**, **BRIGHTNESS**, **COLOR**, **SHARPNESS**, **TINT**) of the screen as you like. If the picture you set is not satisfactory, you can select a factory preset picture. In the broadcasting system PAL-M/N, the picture item **TINT** is not displayed.

Using the PICTURE Button

1. Press the **PICTURE** button.
2. Press the ▲ / ▼ or **PICTURE** button to select **CONTRAST**, **BRIGHTNESS**, **COLOR**, **SHARPNESS** or **TINT**.
3. Press the ◀ / ▶ button to adjust the level.
4. Press the **ENTER** (■) button to exit.

Using the MENU button

1. Press the **MENU** button and then ▲ / ▼ button the until the menu is displayed as shown right.
2. Press the ▶ and then ▲ / ▼ button to select the desired picture mode.
3. Press the ▶ button.
4. Press the ◀ / ▶ button to adjust the level.
The level of displayed is adjusted.
5. Press the **ENTER** (■) button to exit.

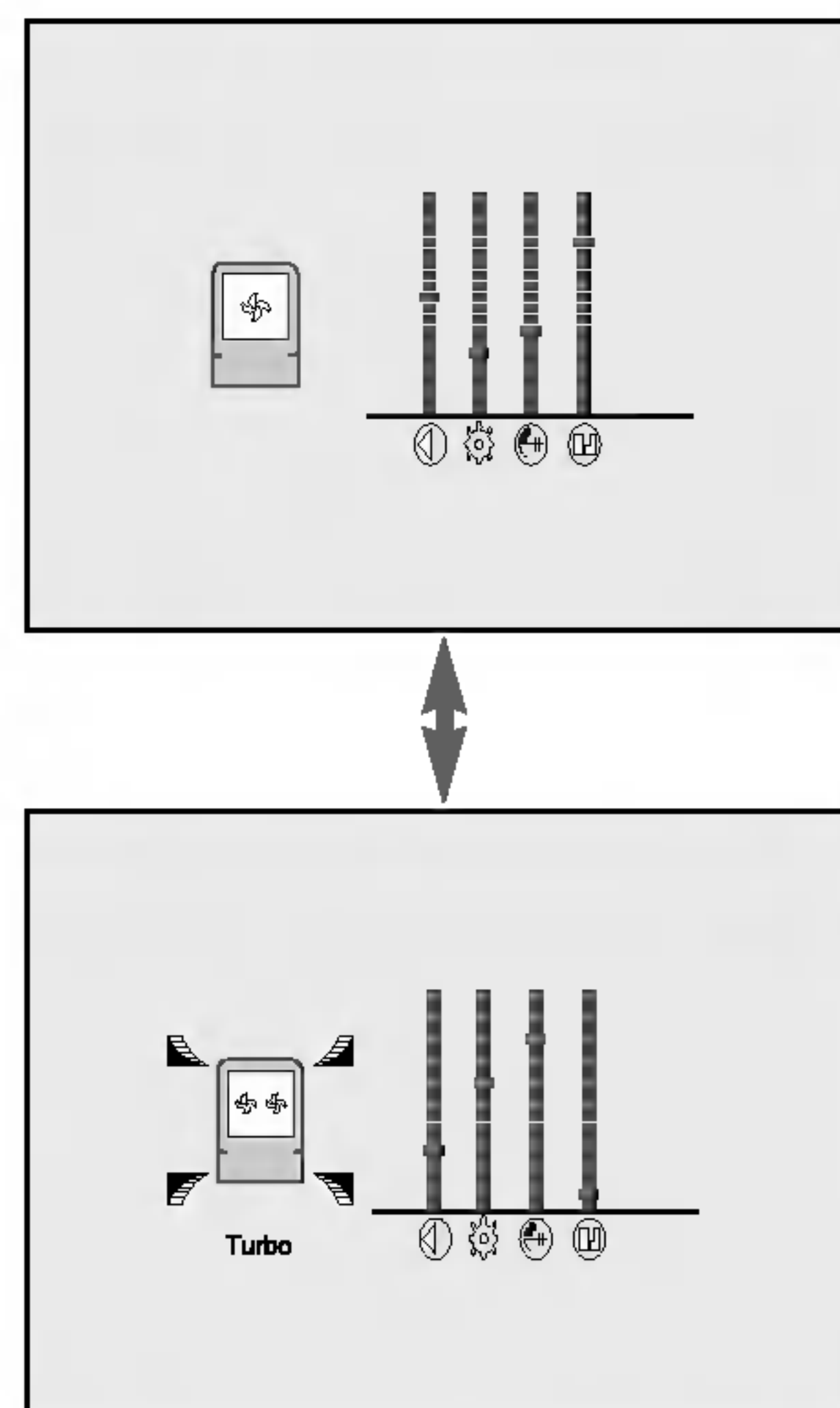


Turbo Picture (some models)

With this function picture will be more bright and distinct than normal picture.

Repeatedly press the **TURBO PICTURE** button to switch on or off the turbo picture function.

Note: If you operate the EYE or APC function when the Turbo picture function is on, the Turbo picture function will be automatically switched off.



Sound control (some models)

Enjoying the Stereo/SAP Broadcast (some models)

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.

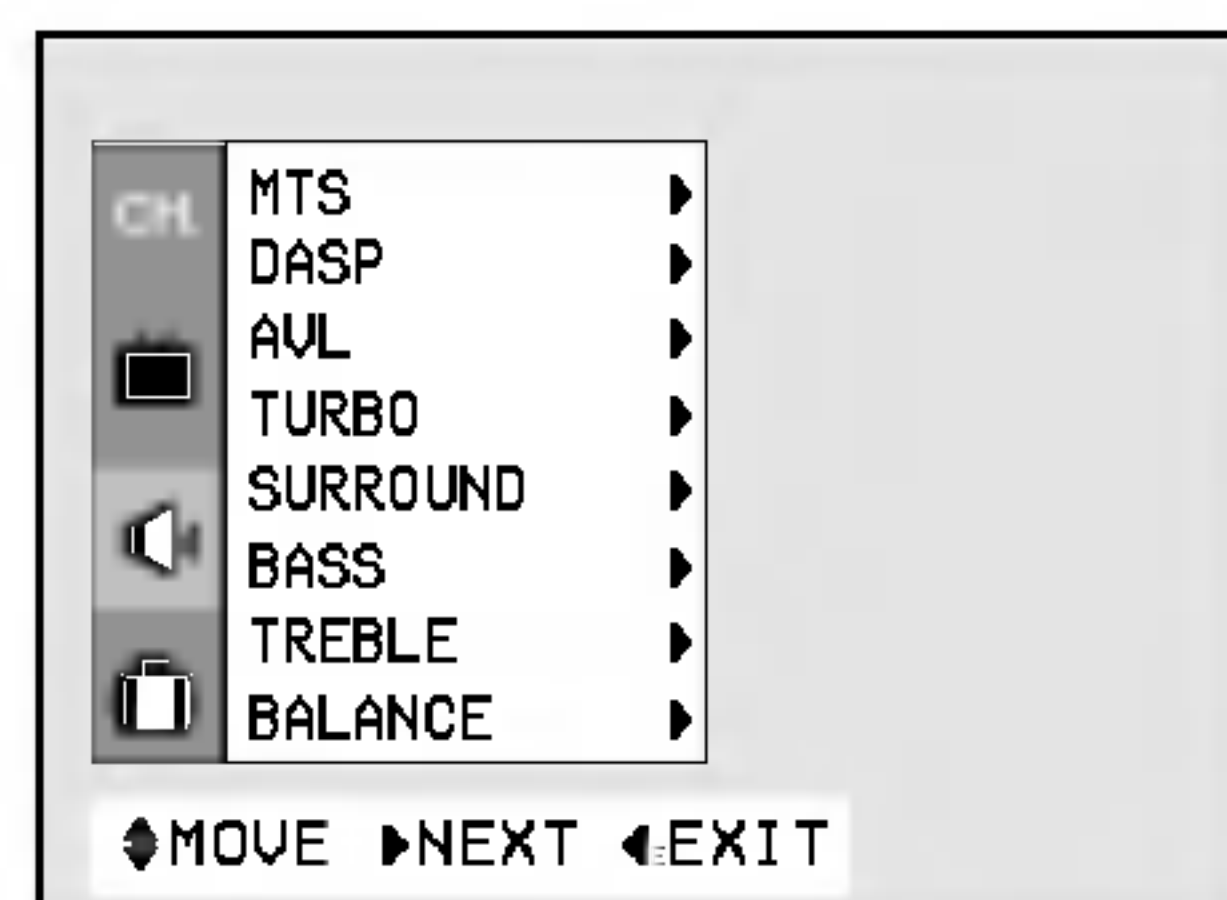
Using the MTS Button (some models)

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

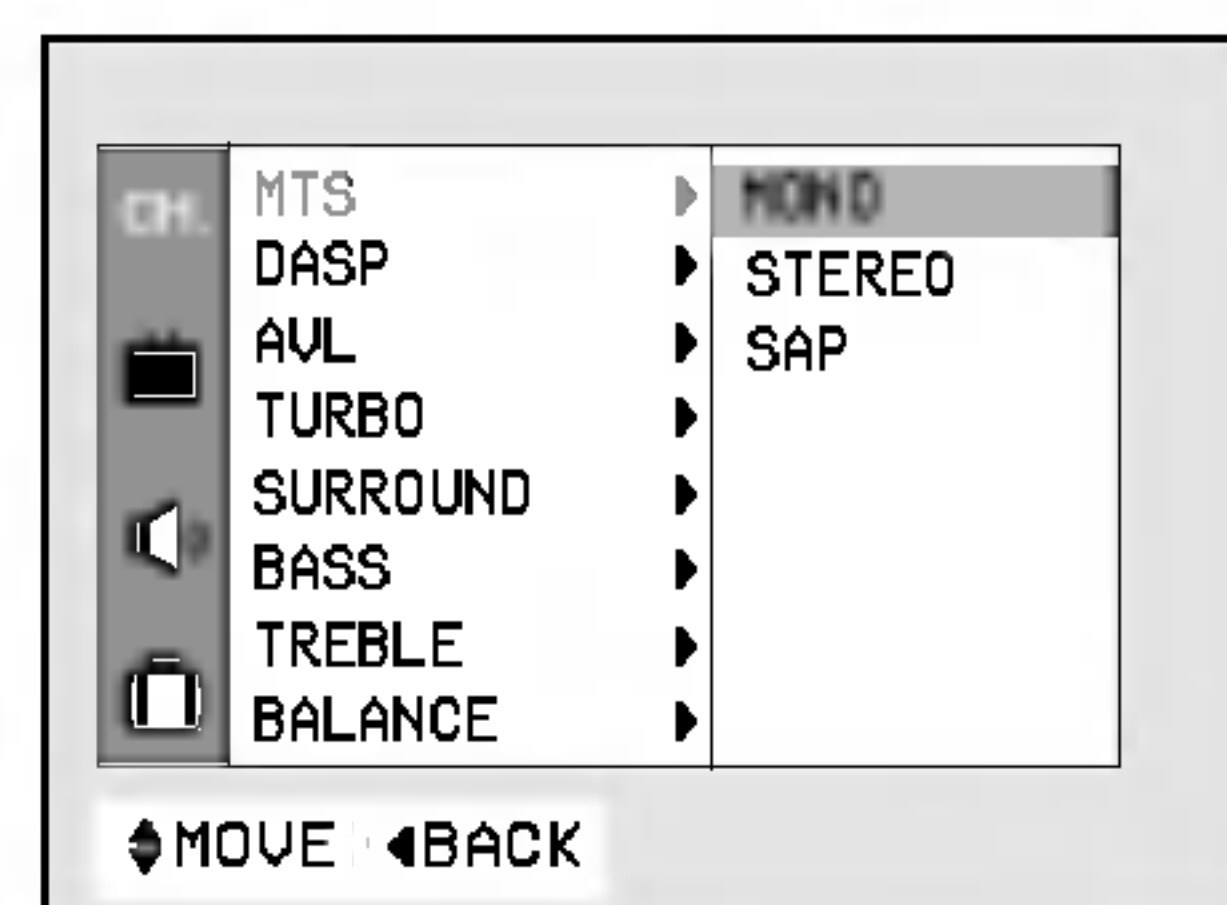


Using the MENU Button

1. Press the **MENU** button and then ▲ / ▼ button until the menu is displayed as shown right.
2. Press the ▶ and then ▲ / ▼ button to select **MTS**.
3. Press the ▶ button to enter the **MTS** mode.
4. Press the ▲ / ▼ button to select **MONO**, **STEREO** or **SAP**.
5. Press the **VOLUME** (◀) button to exit.



- Notes:**
- The stereo or SAP can be broadcast only when the TV station transmits its signal even though you have selected **STEREO** or **SAP**.
 - The mono sound is automatically broadcast in case of mono broadcast even when the **STEREO** or **SAP** has been selected.
 - Select **MONO** if you want to listen to the mono sound in the fringe area during stereo/SAP broadcasting.

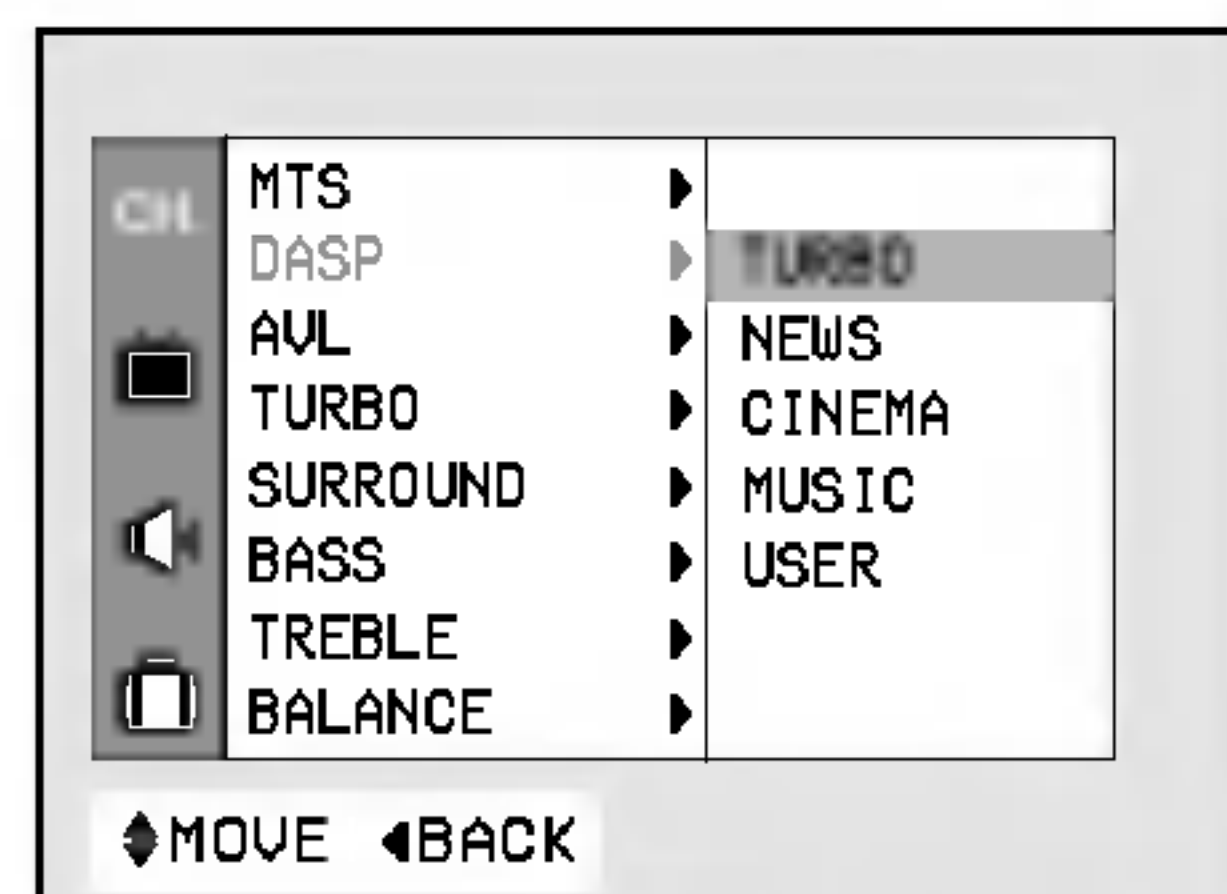


Auto Sound Control (some models)

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.

Using the MENU Button

1. Press the **MENU** button and then ▲ / ▼ button until the menu is displayed as shown right.
2. Press the ▶ and then the ▲ / ▼ button to select **DASP**.
3. Press the ▶ button to enter the **DASP** mode.
4. Press the ▲ / ▼ button to select **TURBO**, **NEWS**, **CINEMA**, **MUSIC** or **USER**.
5. Press the **VOLUME** (◀) button to exit.



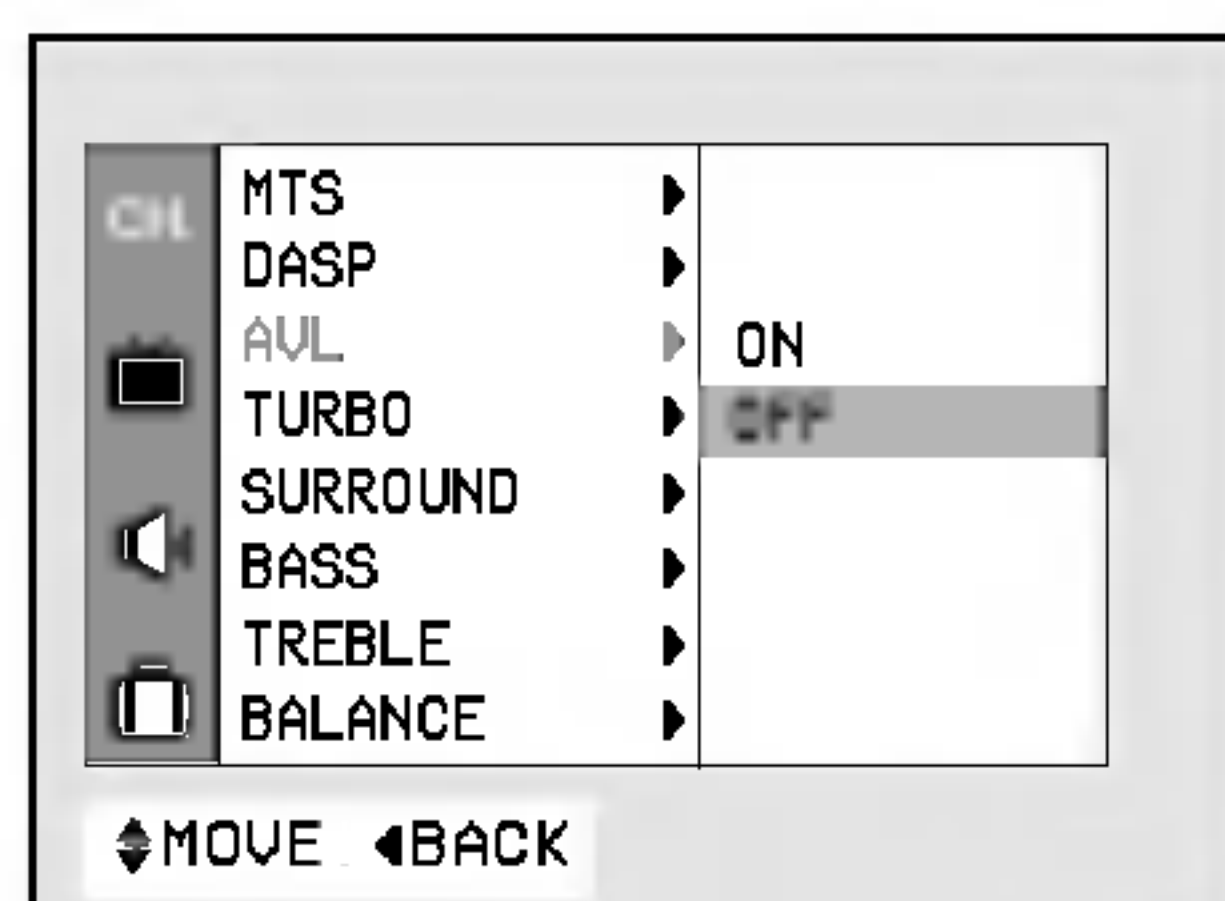
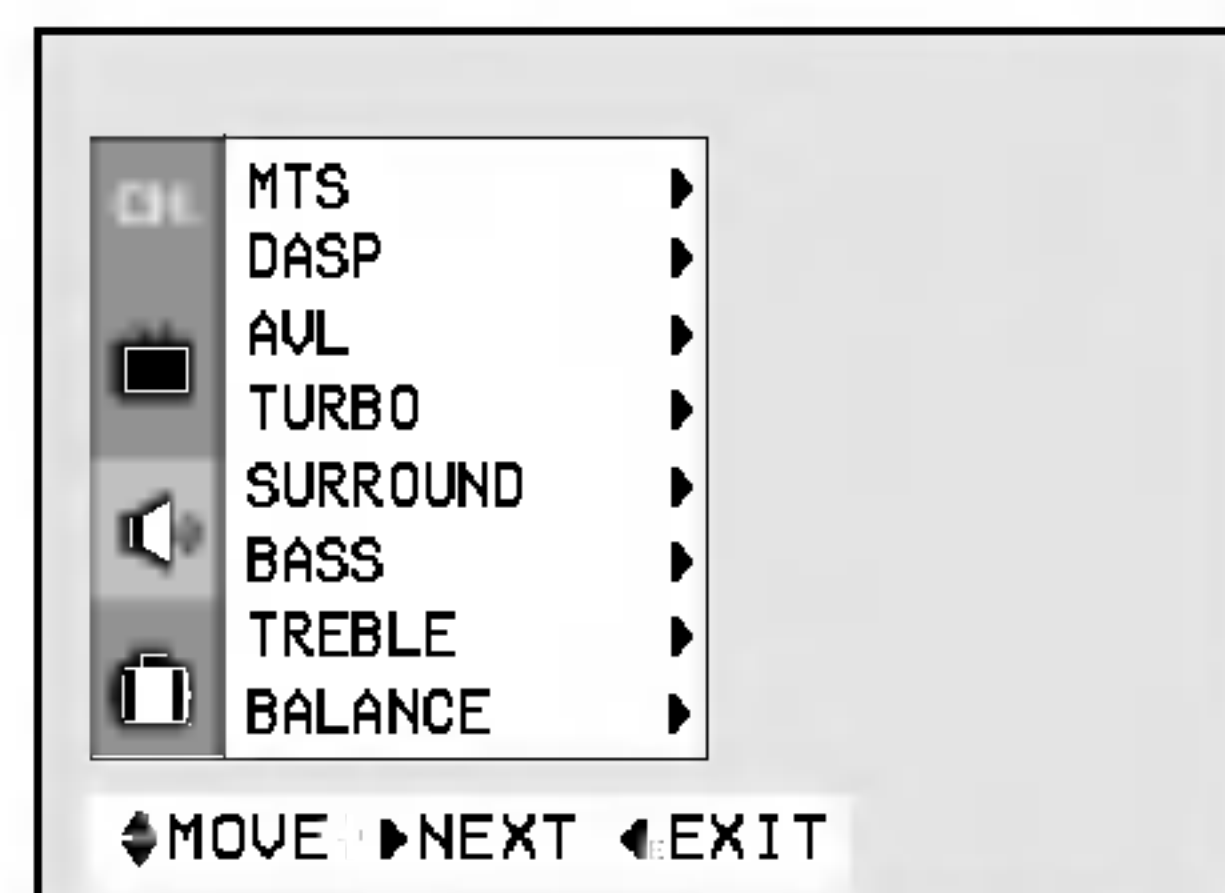
Note: In some models, this function also operate with TURBO SOUND button.

AVL (Auto Volume Leveler) (some models)

AVL automatically keeps on an equal volume level even if you change channels.

Using the MENU Button

1. Press the **MENU** button and then **▲/▼** button the until the menu is displayed as shown right.
2. Press the **►** and then **▲/▼** button to select **AVL**.
3. Press the **►** button to enter the **AVL** mode.
4. Press the **▲/▼** button to select **ON** or **OFF**.
5. Press the **VOLUME (◀)** button to exit.



Turbo Sound (some models)

With this function sound will be more emphasized and amplified than normal sound.

Using the TURBO SOUND Button

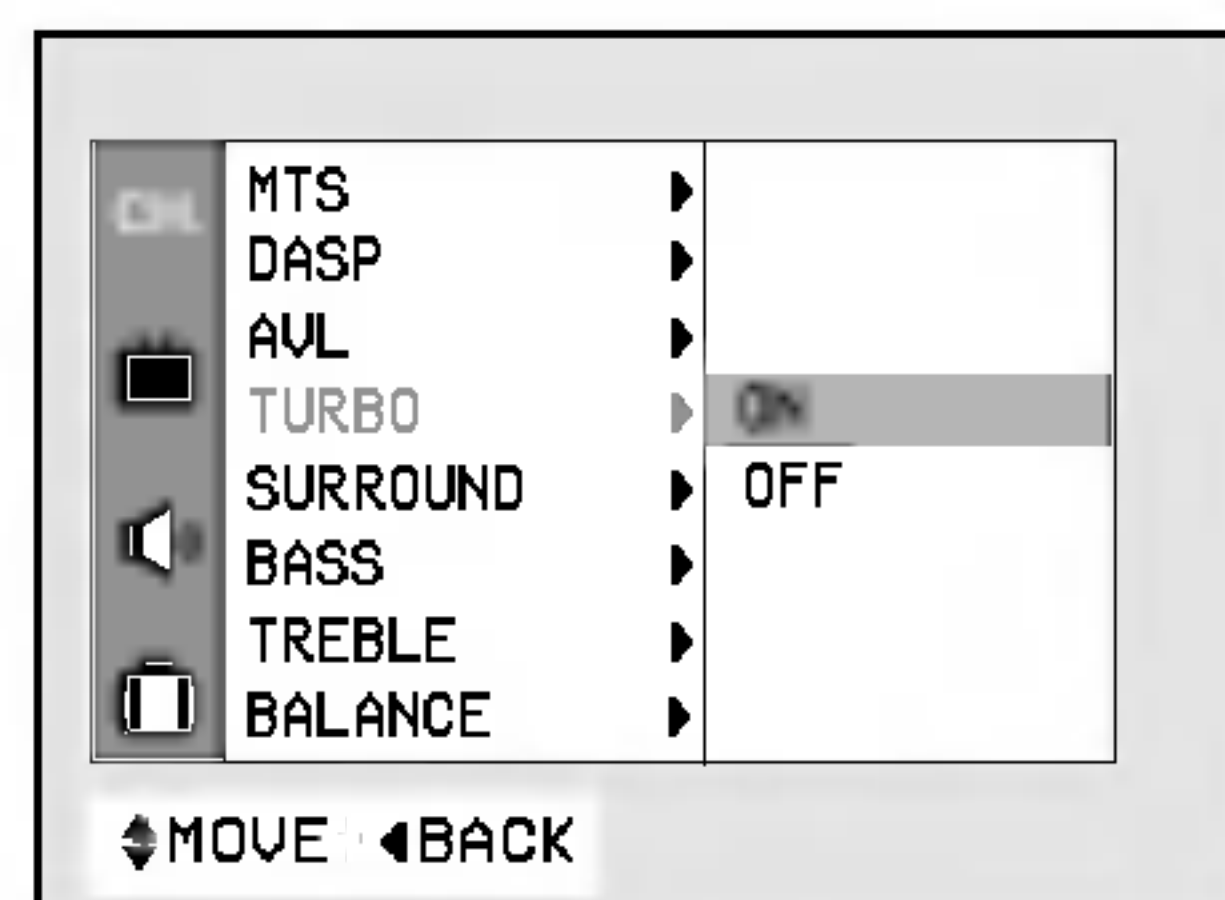
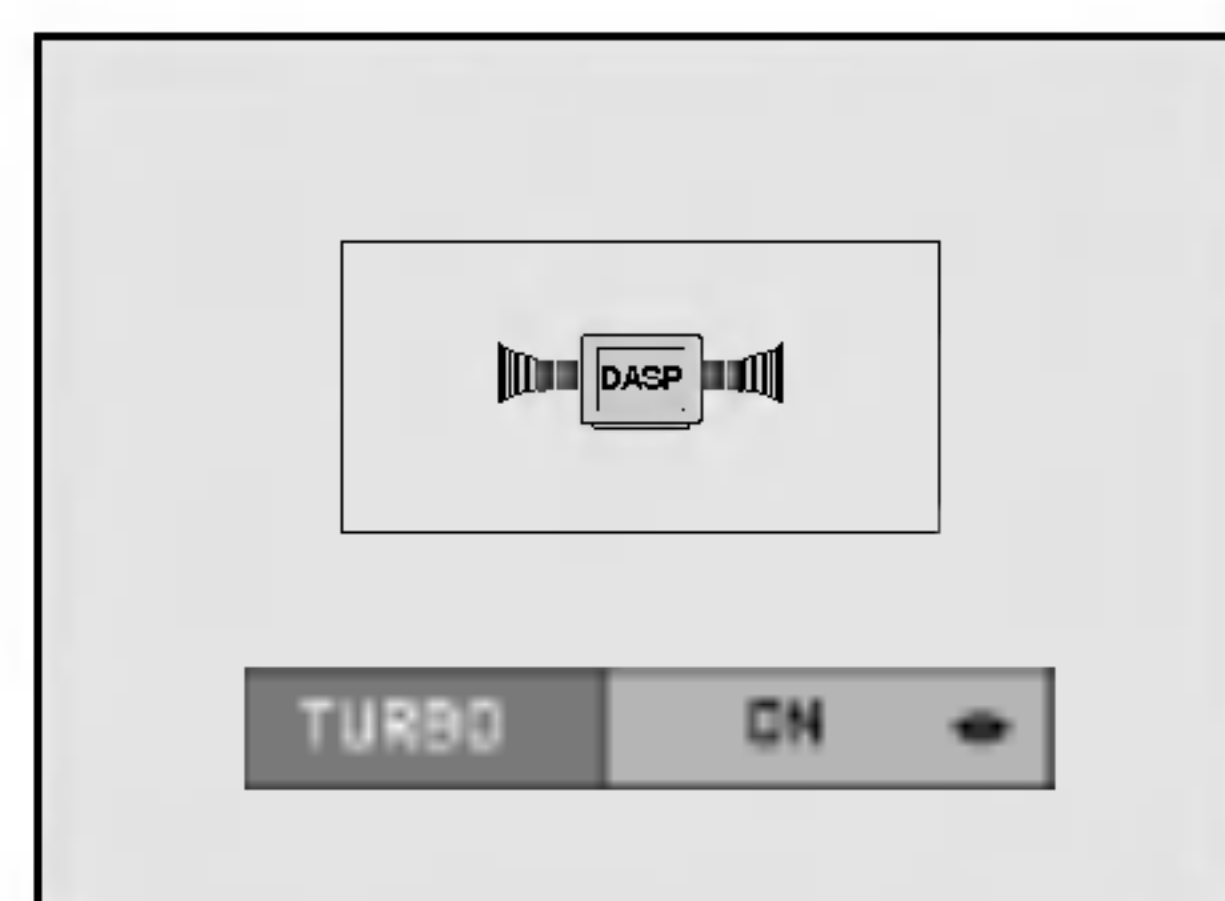
Press the **TURBO SOUND** button to select the **ON** mode.

Each time you press this button, **ON** or **OFF** mode alternatively appears in on-screen display.

Using the MENU Button

1. Press the **MENU** button and then **▲/▼** button the until the menu is displayed as shown right.
2. Press the **►** and then **▲/▼** button to select **TURBO**.
3. Press the **►** button to enter the **TURBO** mode.
4. Press the **▲/▼** button to select **ON** or **OFF**.
5. Press the **VOLUME (◀)** button to exit.

Note: In some models "TURBO SOUND" button activates "DASP" function, you can select: TURBO, NEWS, CINEMA, MUSIC or USER. See page 19.



SURROUND (some models)

SURROUND is suited music or show program. You are surrounded by the sound effect as in a concert hall by using this function.

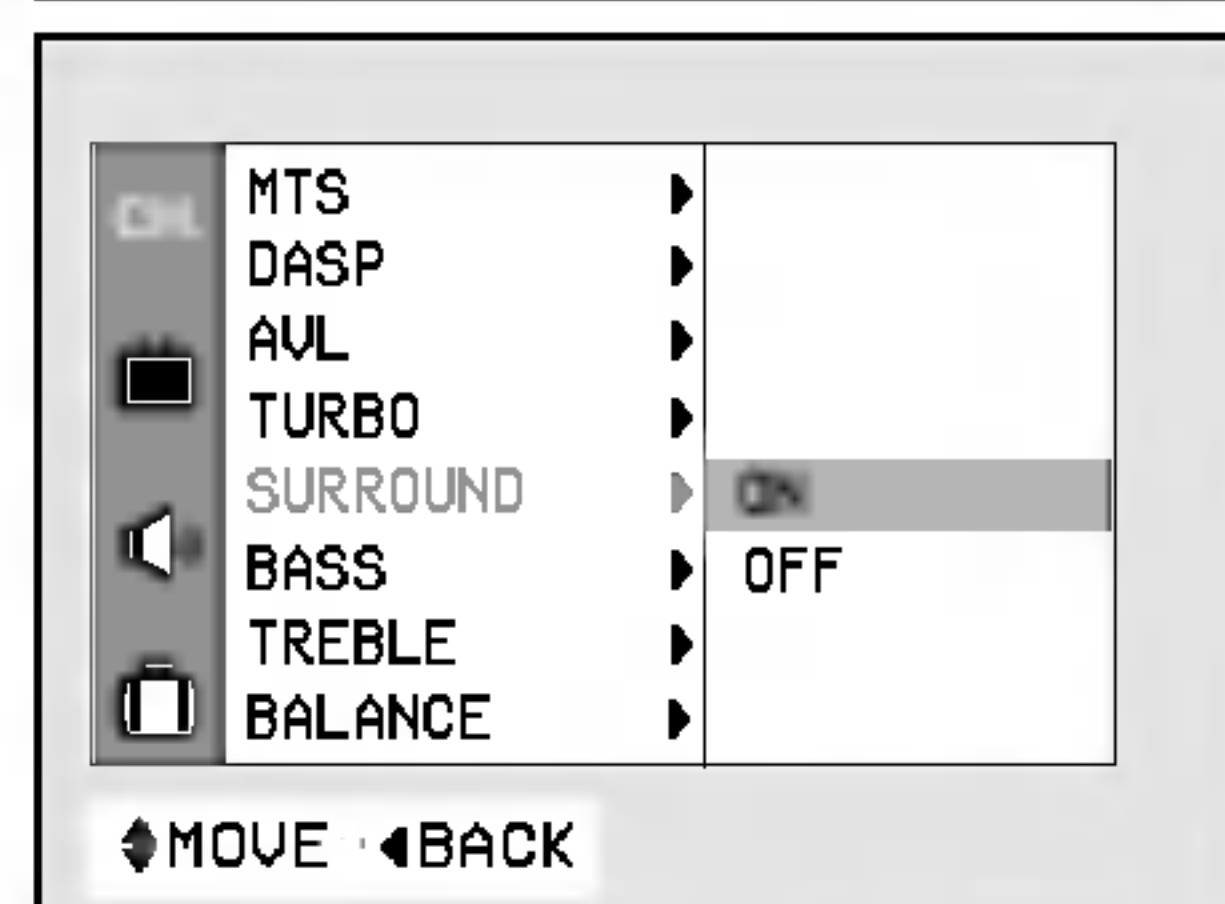
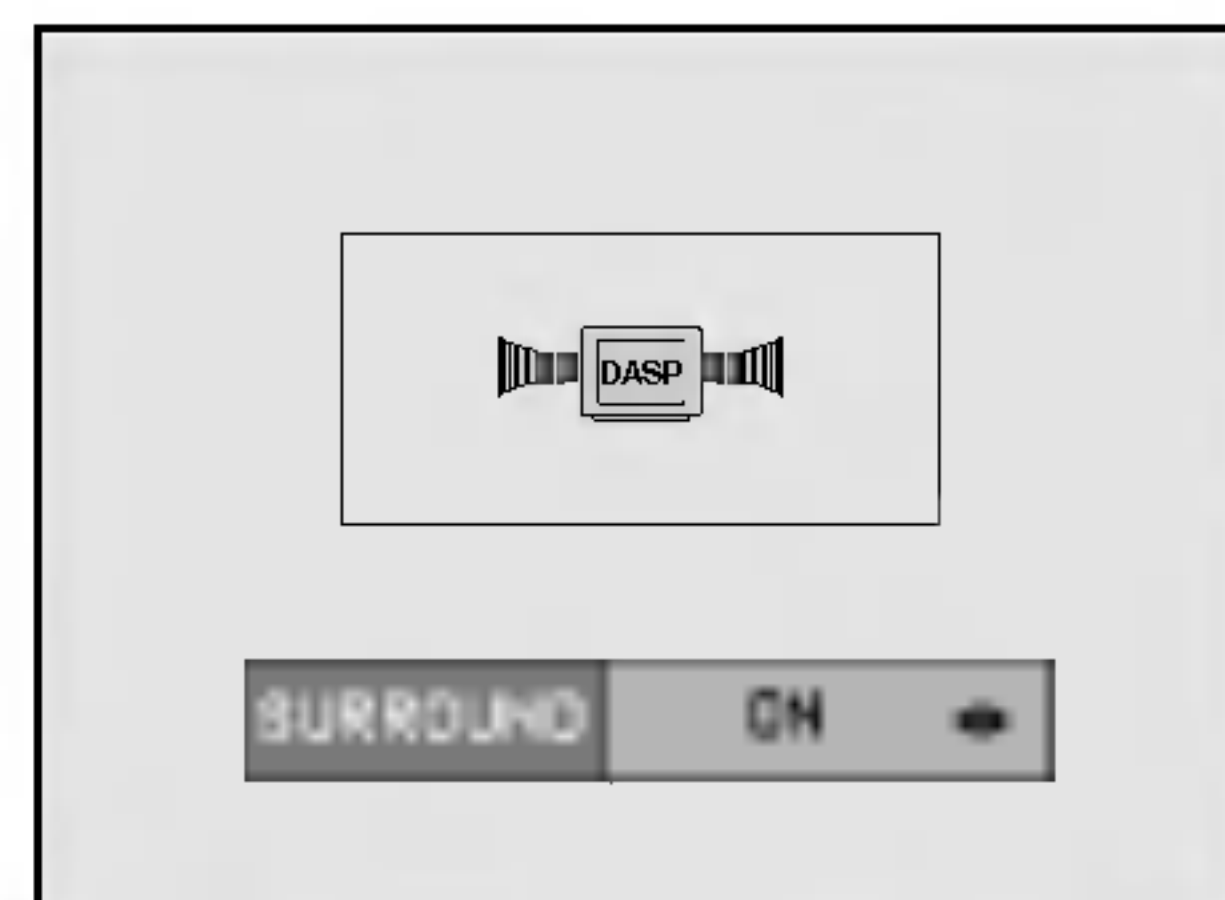
Using the 3D SURROUND Button

Press the **3D SURROUND** button to select the **ON** mode.

Each time you press this button, **ON** or **OFF** mode alternatively appears in on-screen display.

Using the MENU Button

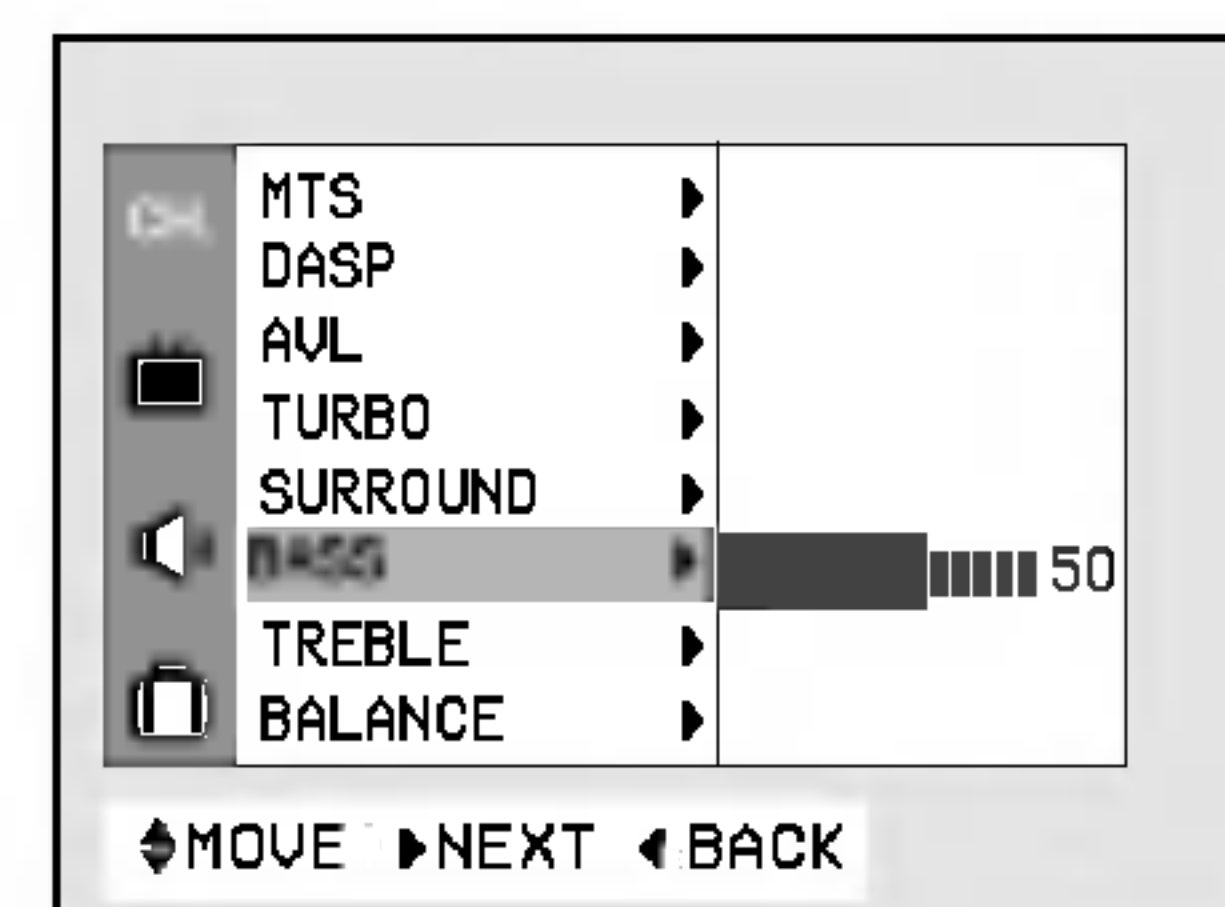
1. Press the **MENU** button and then **▲/▼** button the until the menu is displayed as shown right.
2. Press the **▶** and then **▲/▼** button to select **SURROUND**.
3. Press the **▶** button to enter the **SURROUND** mode.
4. Press the **▲/▼** button to select **ON** or **OFF**.
5. Press the **VOLUME (◀)** button to exit.



Adjusting the bass (some models)

This function is to increase or decrease bass.

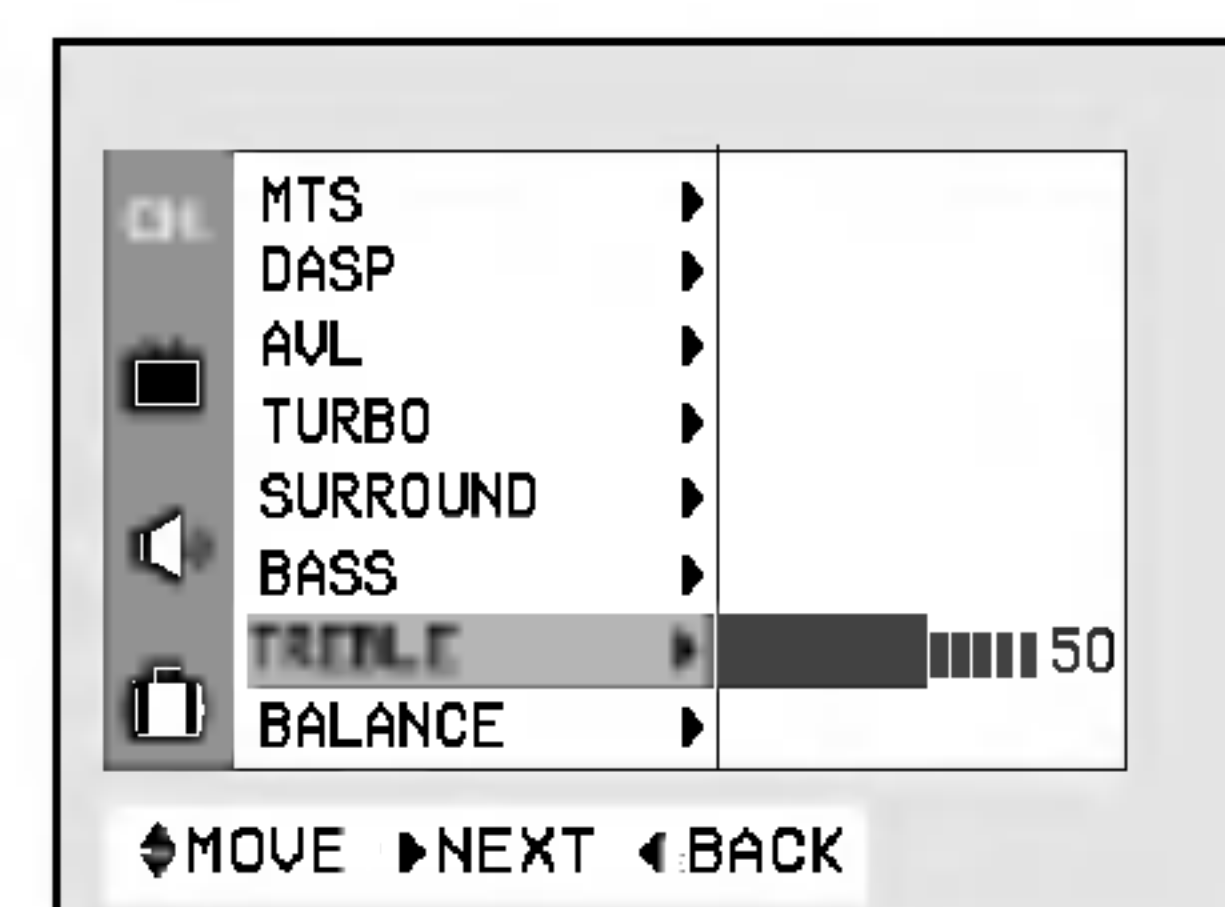
1. Press the **MENU** button and then **▲/▼** button the until the menu is displayed as shown right.
2. Press the **▶** and then **▲/▼** button to select **BASS**.
3. Press the **▶** button to enter the **BASS** mode.
4. Press the **◀/▶** button to adjust the bass level.
5. Press the **ENTER (■)** button to exit.



Adjusting the treble (some models)

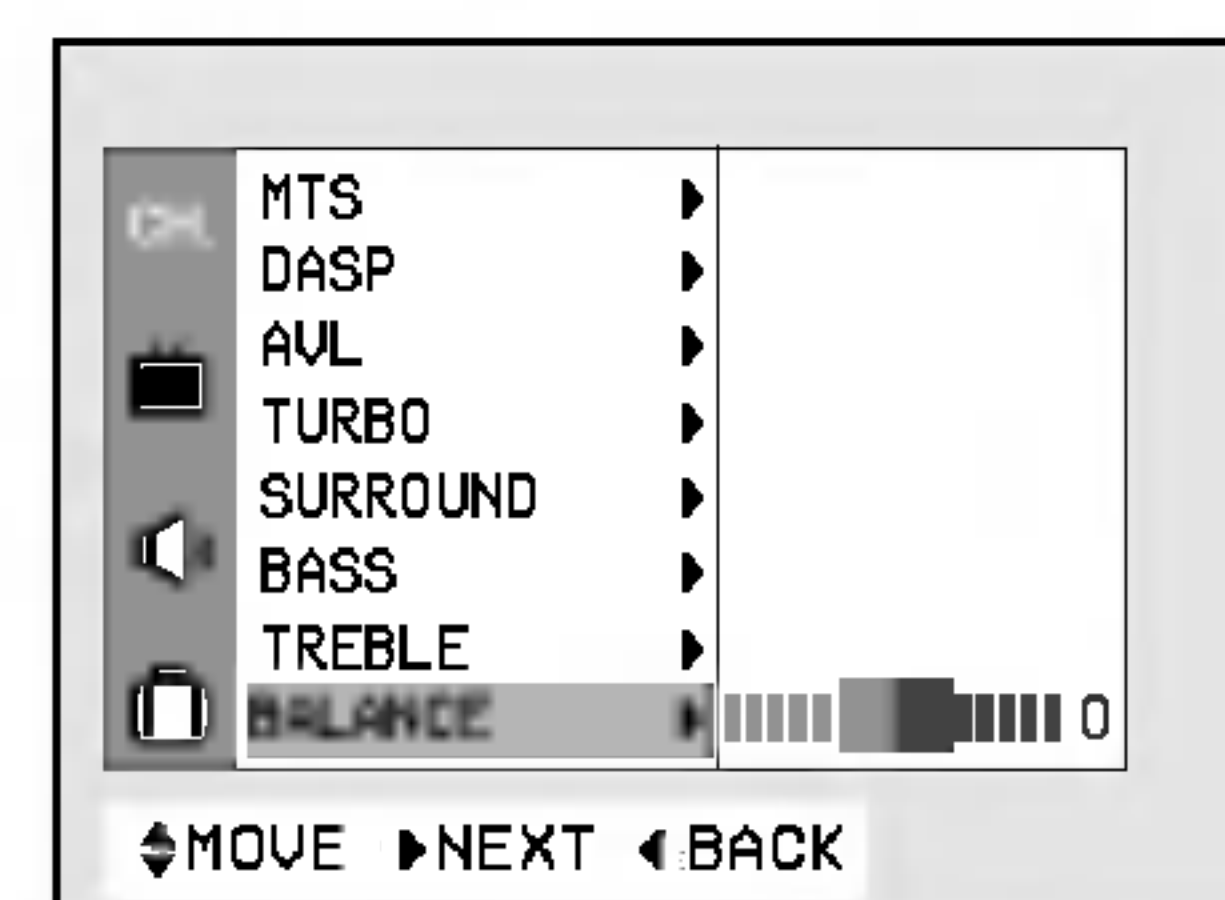
This function is to increase or decrease treble.

1. Press the **MENU** button and then **▲/▼** button the until the menu is displayed as shown right.
2. Press the **▶** and then **▲/▼** button to select **TREBLE**.
3. Press the **▶** button to enter the **TREBLE** mode.
4. Press the **◀/▶** button to adjust the treble level.
5. Press the **ENTER (■)** button to exit.



Adjusting the balance (some models)

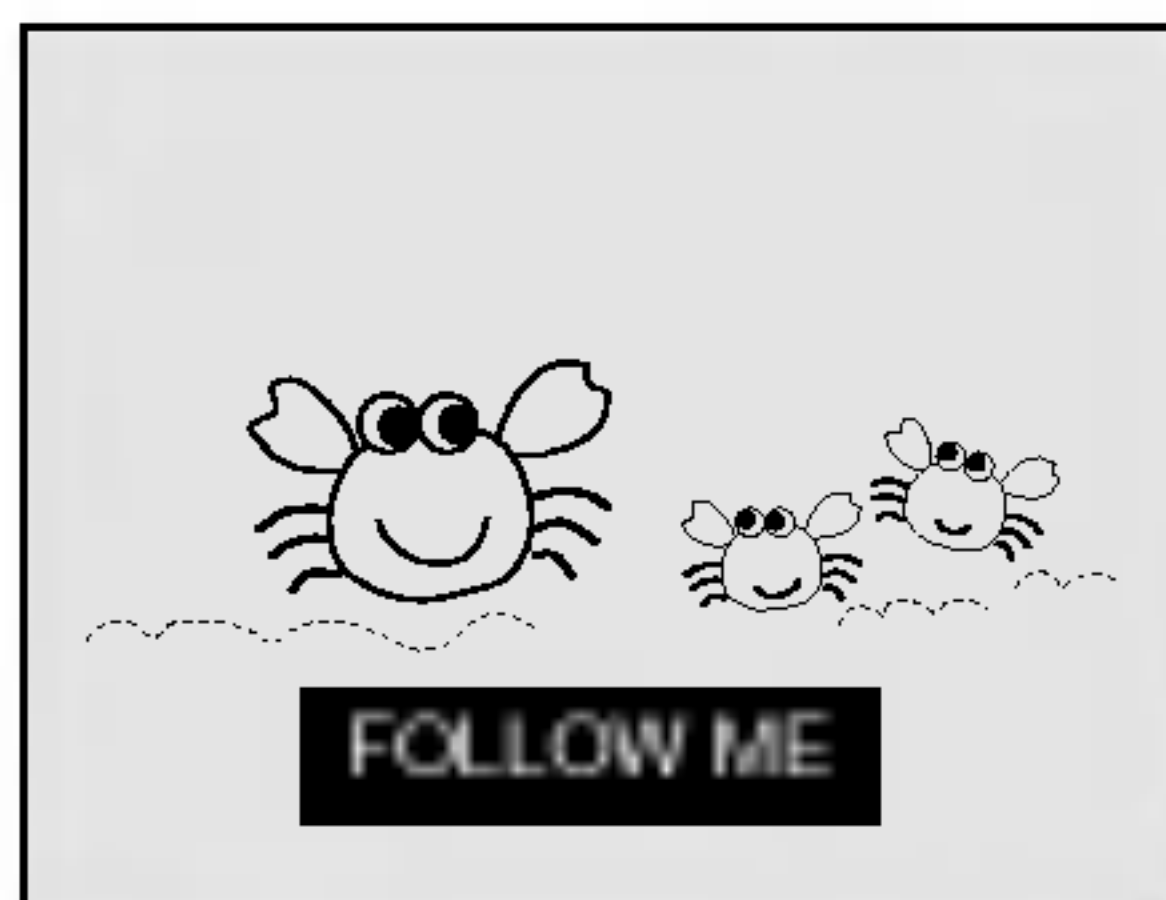
1. Press the **MENU** button and then **▲/▼** button the until the menu is displayed as shown right.
2. Press the **▶** and then **▲/▼** button to select **BALANCE**.
3. Press the **▶** button to enter the **BALANCE** mode.
4. Press the **◀/▶** button to adjust the balance level.
5. Press the **ENTER (■)** button to exit.



Closed caption function (some models)

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.

❶ 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.

❷ An old, bad or illegally recorded tape is played.

❸ Strong, random signals from a car or airplane interfere with the TV signal.

❹ The signal from the antenna is weak.

❺ 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

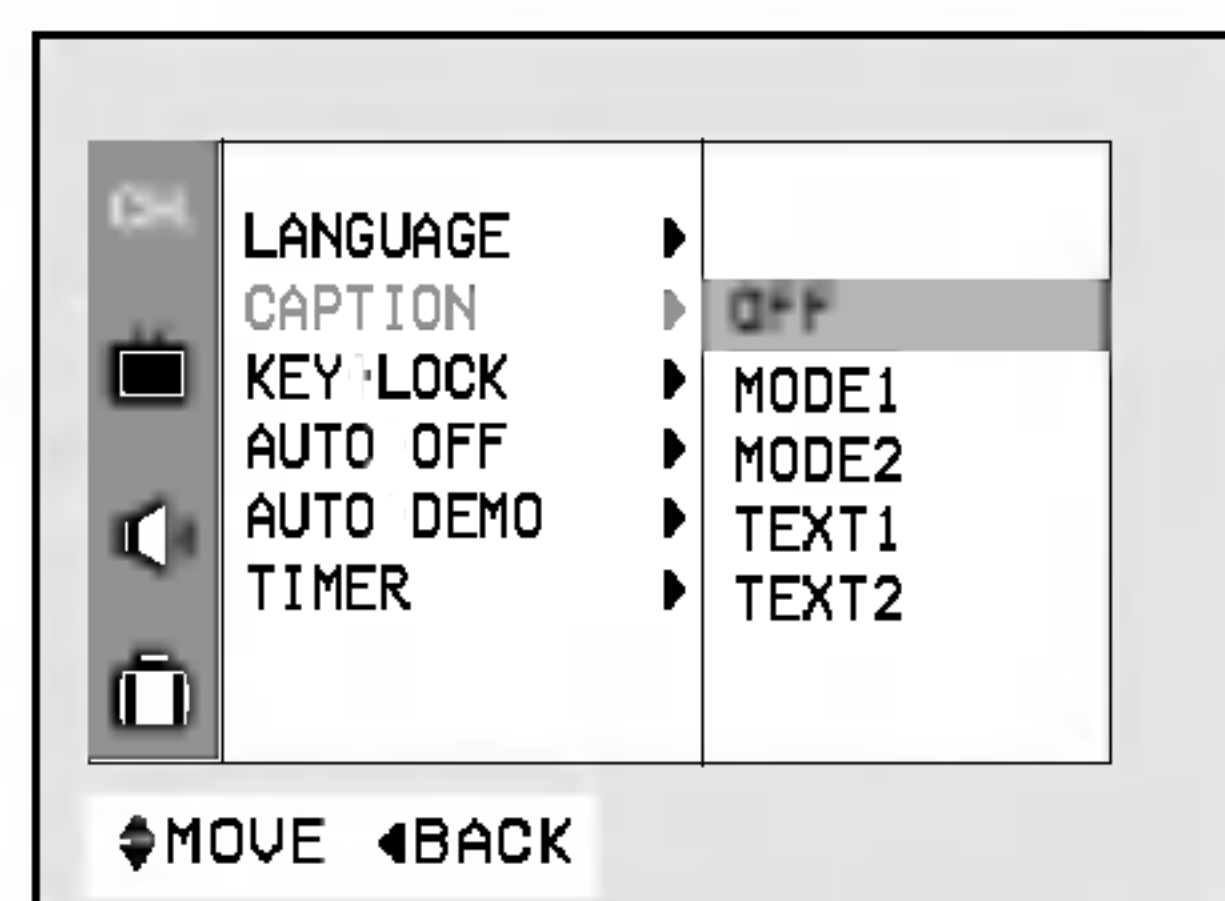
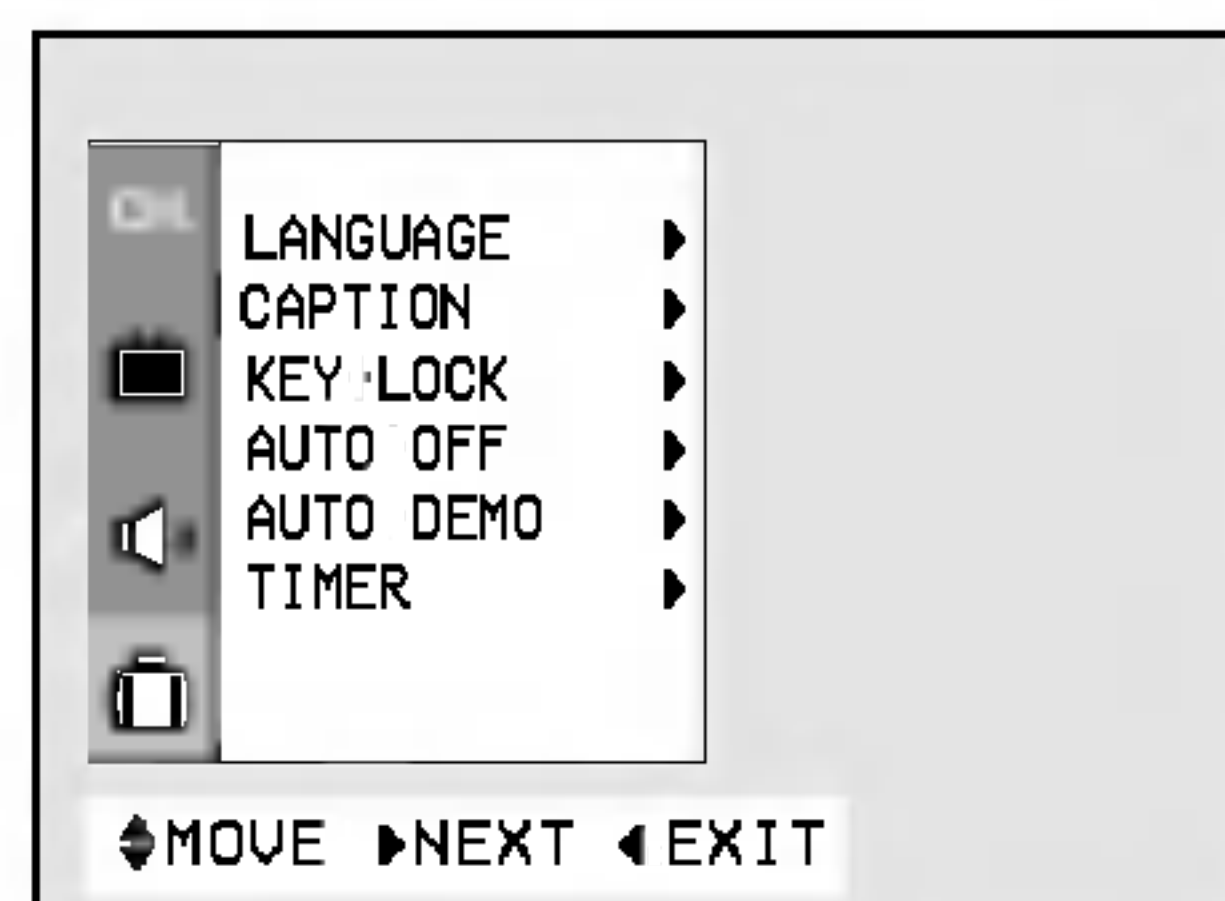
Using the CAPTION button (some models)

1. Press the **CAPTION** button.
2. Press the ◀/▶ or **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

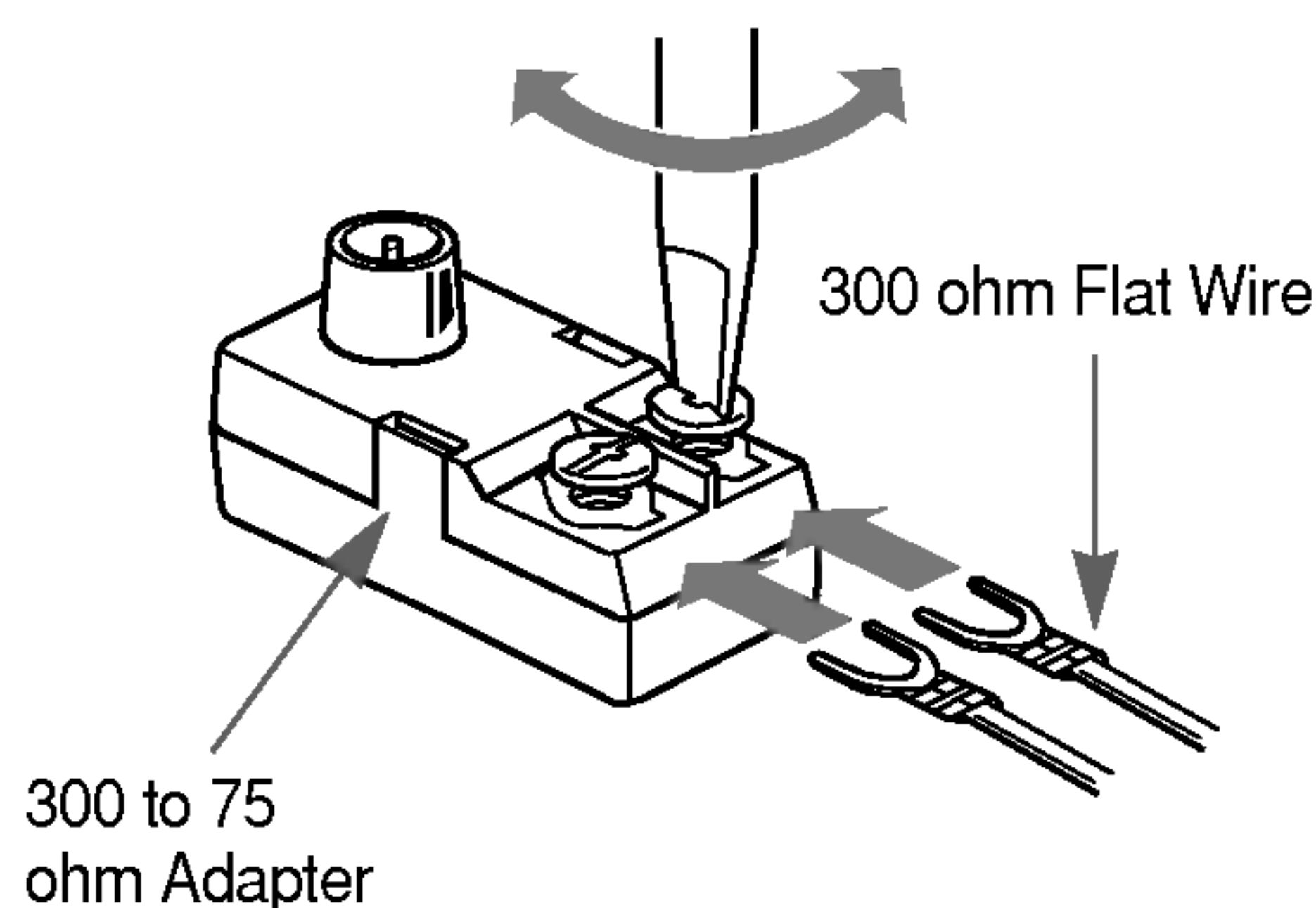
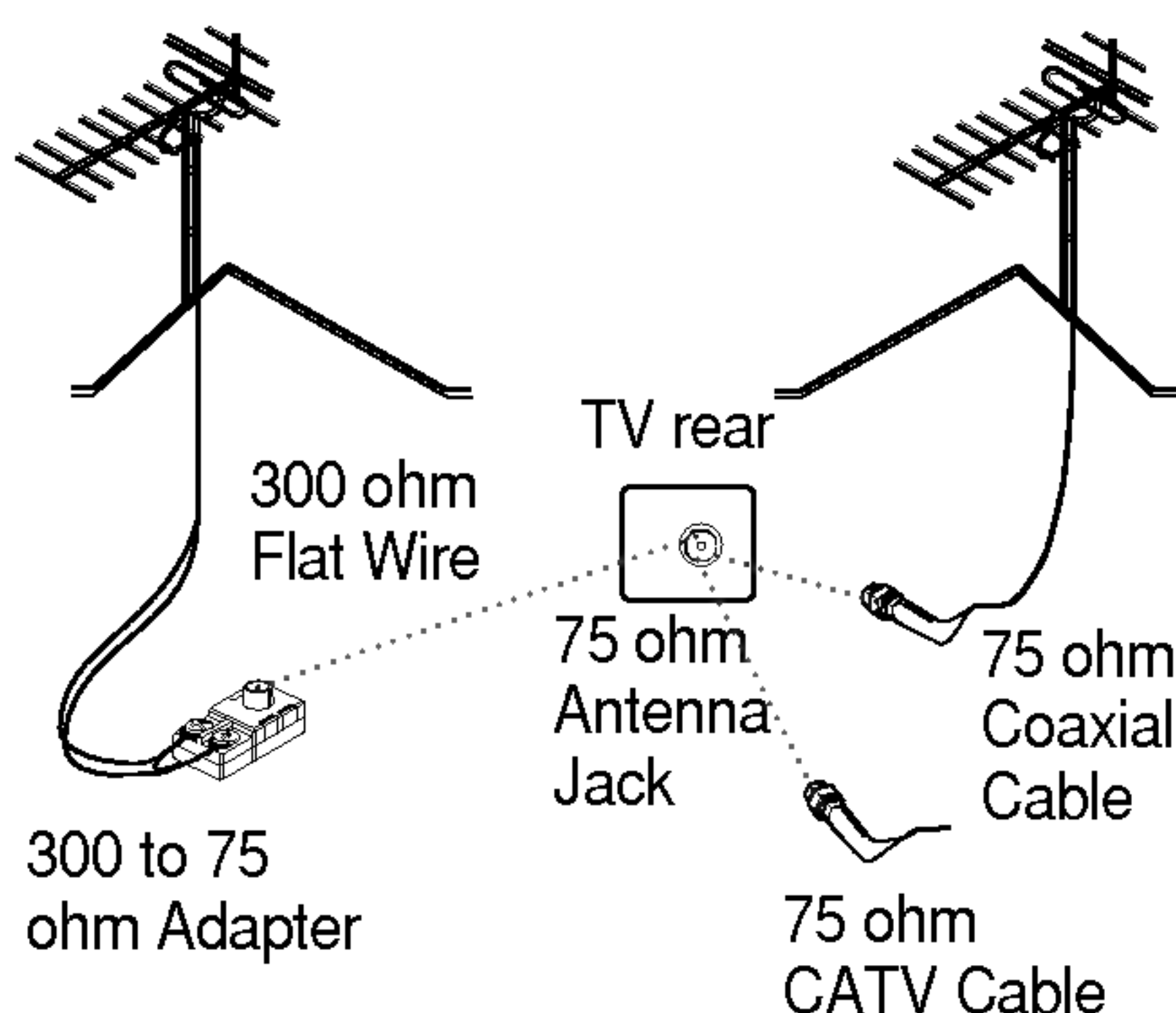
1. Press the **MENU** button and then ▲/▼ button the until the menu is displayed as shown right.
2. Press the ▶ and then ▲/▼ button to select **CAPTION**.
3. Press the ▶ button to enter **CAPTION** mode.
4. Press the ▲/▼ button to select **OFF**, **MODE 1**, **MODE 2**, **TEXT 1** or **TEXT 2**.
5. Press the **VOLUME** (◀) button to exit.

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



Antenna Connections

Combination VHF/UHF Antennas



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

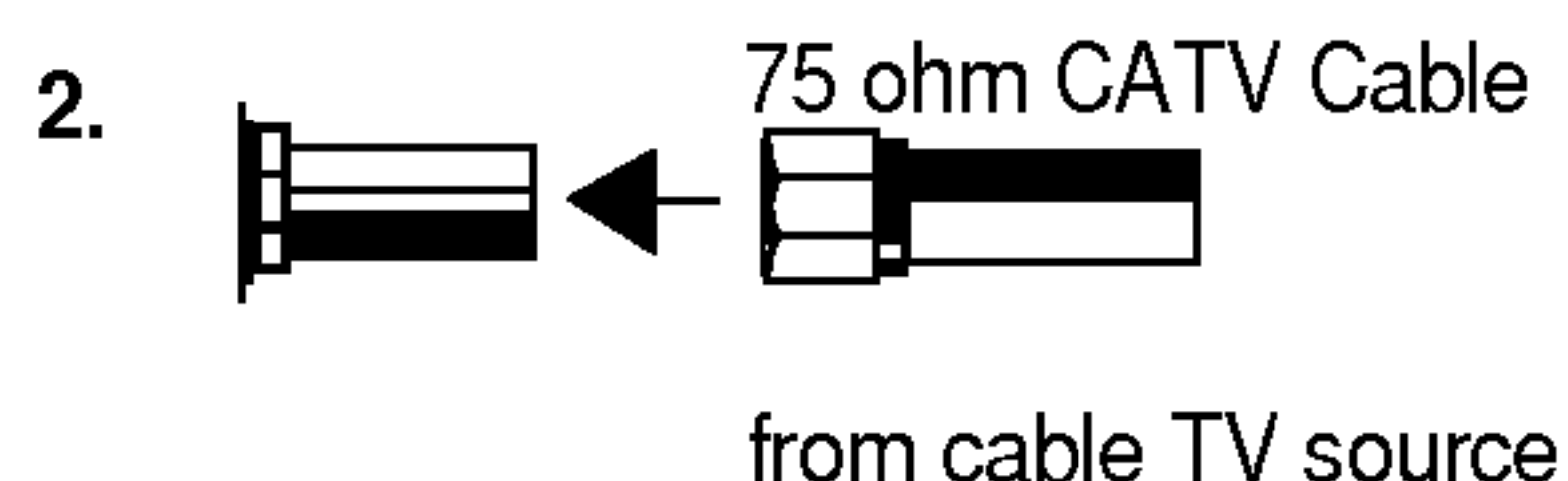
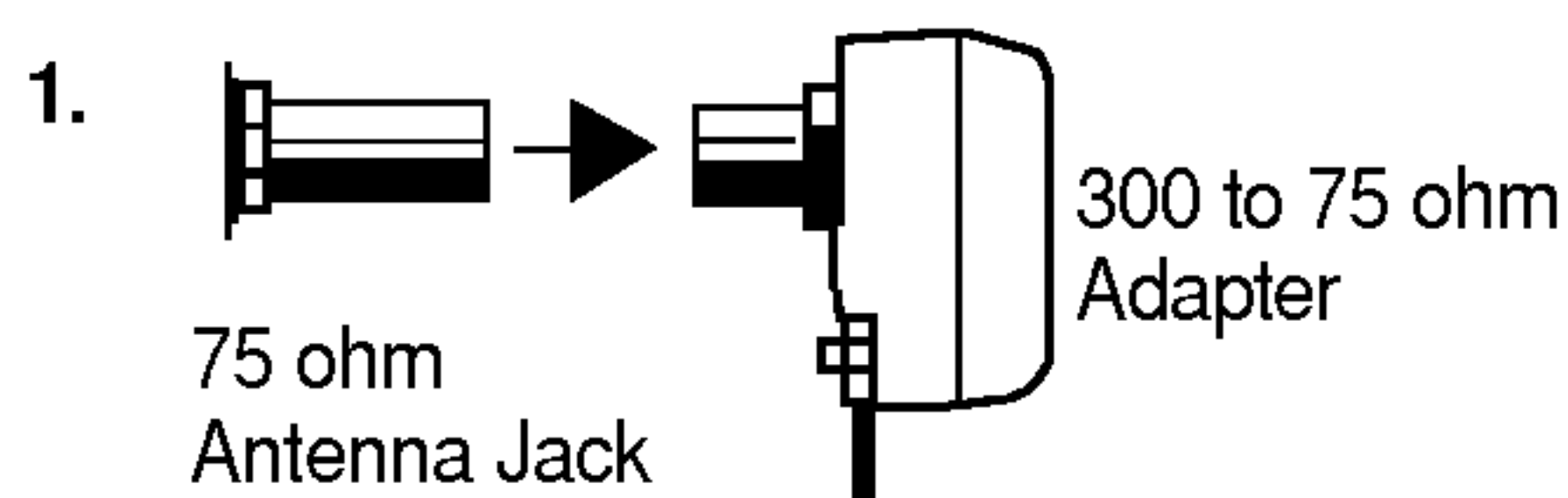
1. Connect the 300 ohm flat wire to screws on the 300 ohm to 75 ohm adapter.
2. Push the end of 300 ohm to 75 ohm adapter into 75 ohm antenna jack.

75 Ohm Coaxial Cable

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

Connecting a CATV Cable

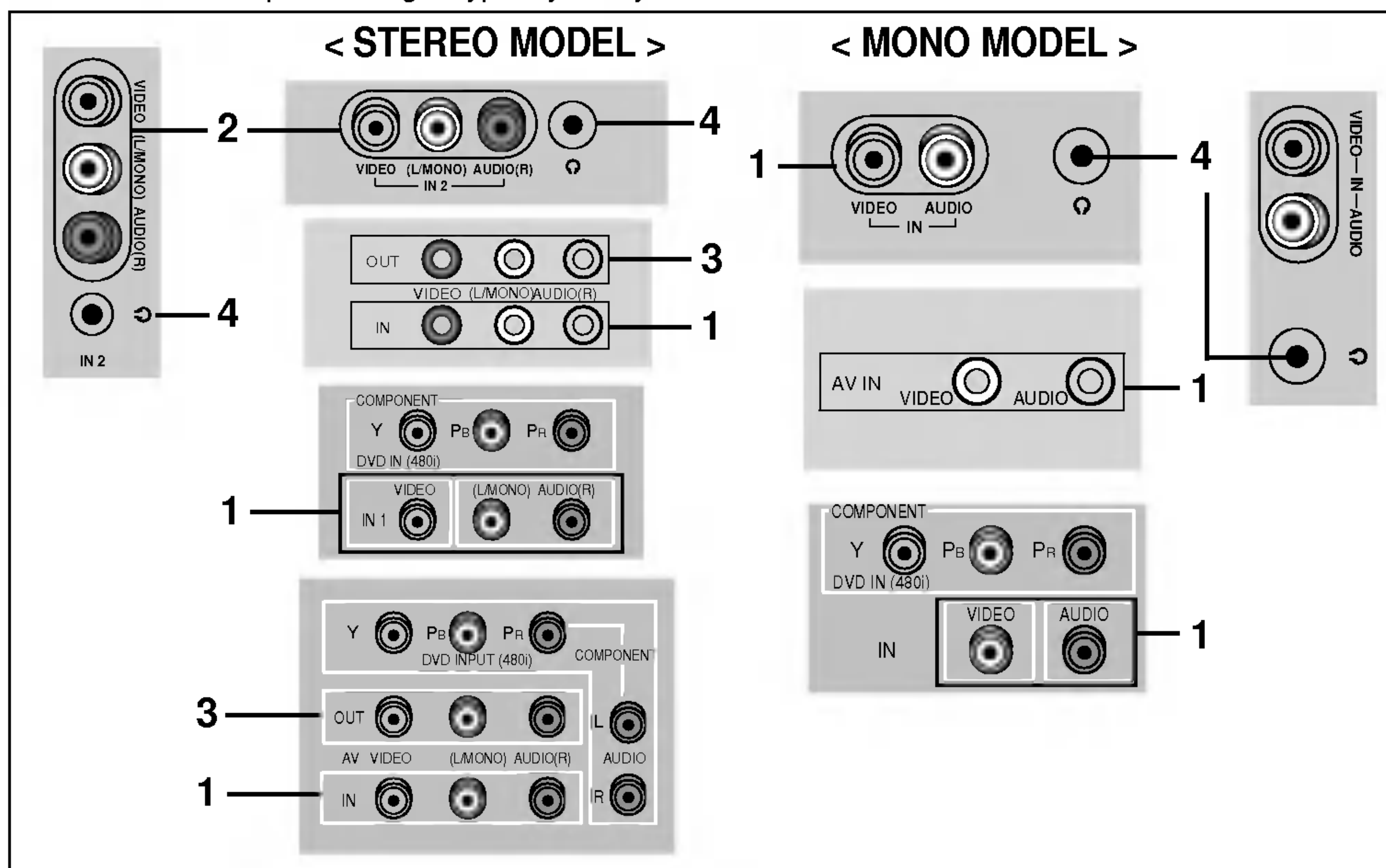
If you subscribe to a CATV system, change the antenna connection as described below.



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 external equipment (some models)

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 or IN1 JACKS :** Connect external equipment outputs (VCR, LASER DISC, CAMCORDER) to these inputs. Press the **TV/VIDEO** button to select **VIDEO-1**.
- 2. IN 2 JACKS :** Connect external equipment outputs (VCR, LASER DISC, CAMCORDER) to these inputs. Press the **TV/VIDEO** button to select **VIDEO-2**.
- 3. OUT JACKS:** Connect external equipment inputs (VCR, Audio amplifier) to these outputs for recording or monitoring the selected program.
- 4. ♻ / EARPHONE JACK :** In some models, this jack is located on the front or side of TV.

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

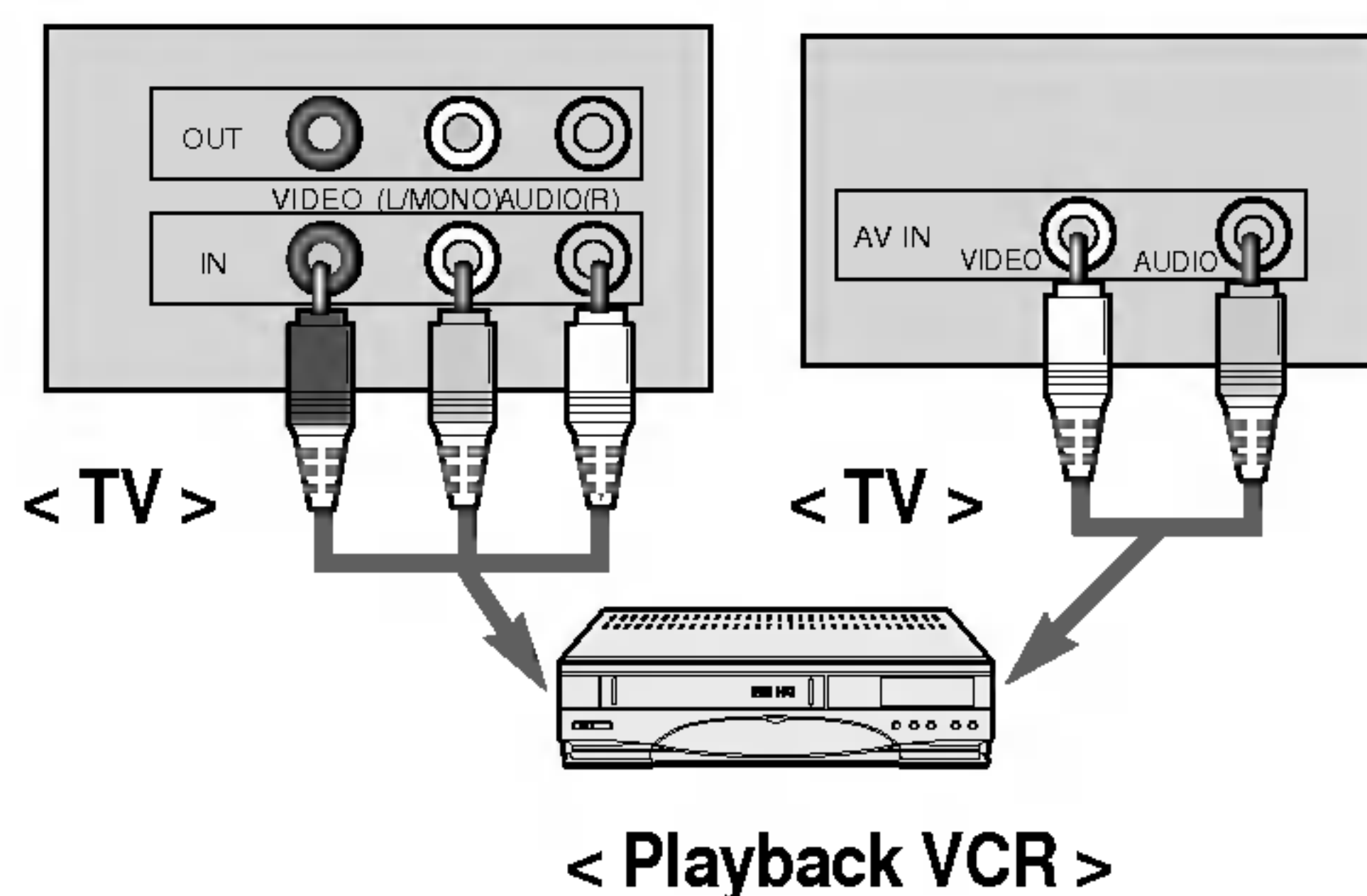
Connecting AUDIO/VIDEO IN Jacks

1. Connect the audio/video output jacks of the VCR to IN or IN 1 (A/V) jacks on the back.
If you connect the audio jack only, you can't hear the sound from the TV.

2. Press the **TV/VIDEO** button to select **VIDEO-1**.

Note: In some stereo models, if you connect the audio/video output jacks of the VCR to the **IN 2(A/V)** jacks of TV, select **VIDEO-2**.

3. Press the **PLAY** button on the VCR.
The video playback is visible on the TV screen.



Connection of external equipment (some models)

- Notes:**
- 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.
 - 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.
 - In some models, you can hear the sound of **VIDEO** mode in **COMPONENT** mode when connecting the TV to VCR.

Recording Onto VCR (some models)

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.

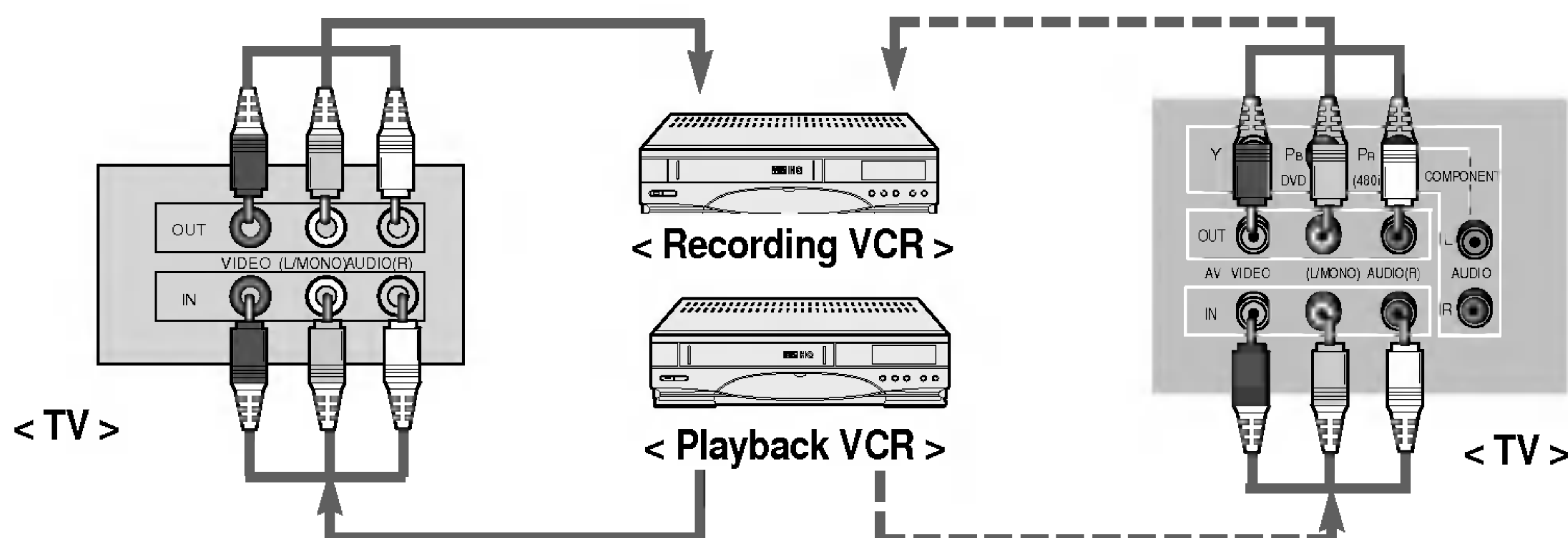


Recording a program from connected other equipment (some models)

1. Connect the output jacks of the playback VCR to the **IN** or **IN 1 (A/V)** jacks on the back of TV (or **IN 2** jacks 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 **VIDEO-1**.

If you connect it to the **IN 2 (A/V)** jacks of TV, you should select **VIDEO-2**.

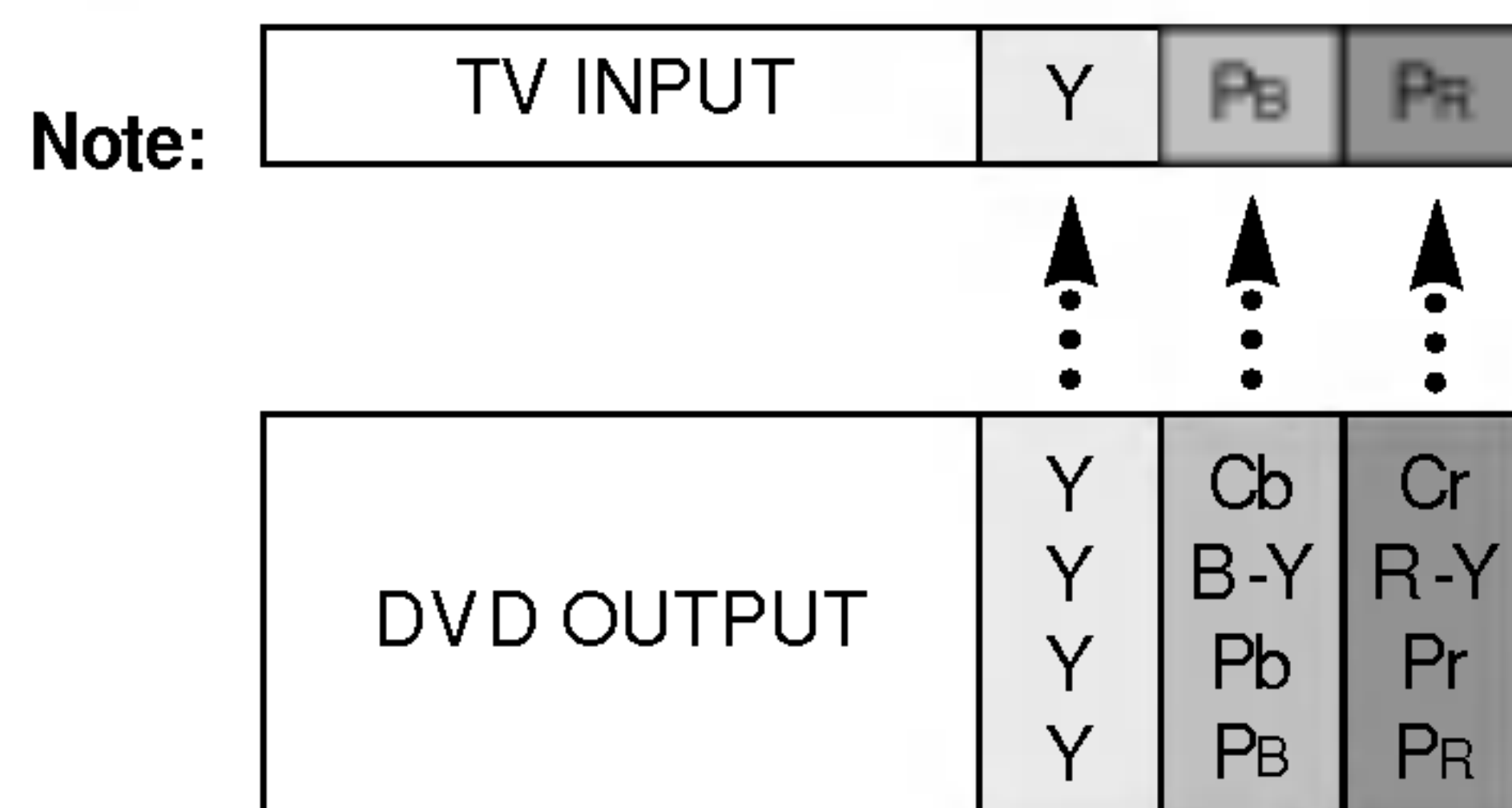
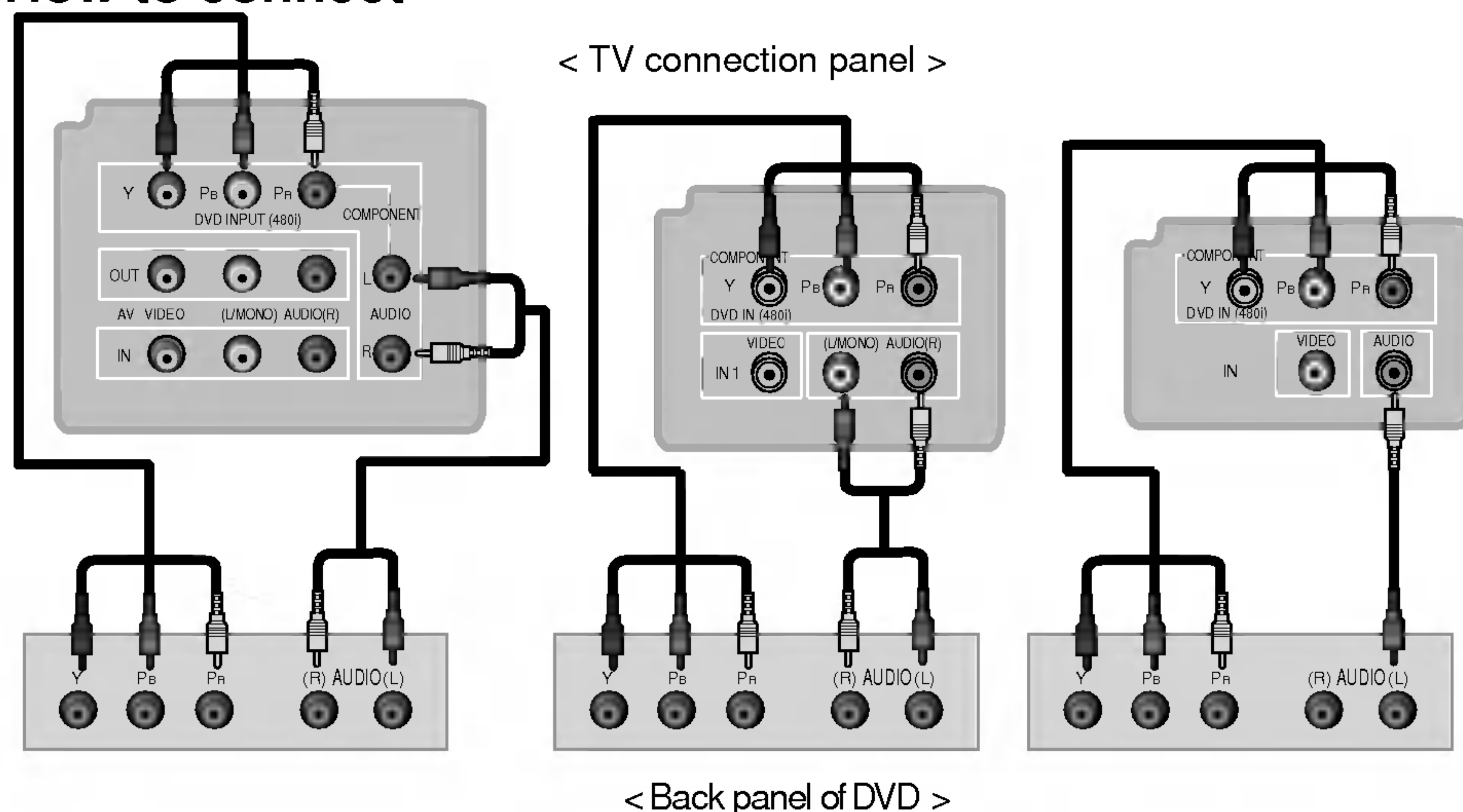
4. Press the **PLAY** button on the playback VCR and set the recording VCR to record.



Connecting DVD player (some models)

- Connect component video inputs to Y, P_B, P_R (480i) and audio inputs to right and left port of audio(L/R) ports.
- **Notes:**
 - This TV is programmed to remember which mode it was last set to, even if you turn the TV off.
 - In some models, you can hear the sound of **COMPONENT** mode in **VIDEO** mode when connecting the TV to DVD player.

1.How to connect



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

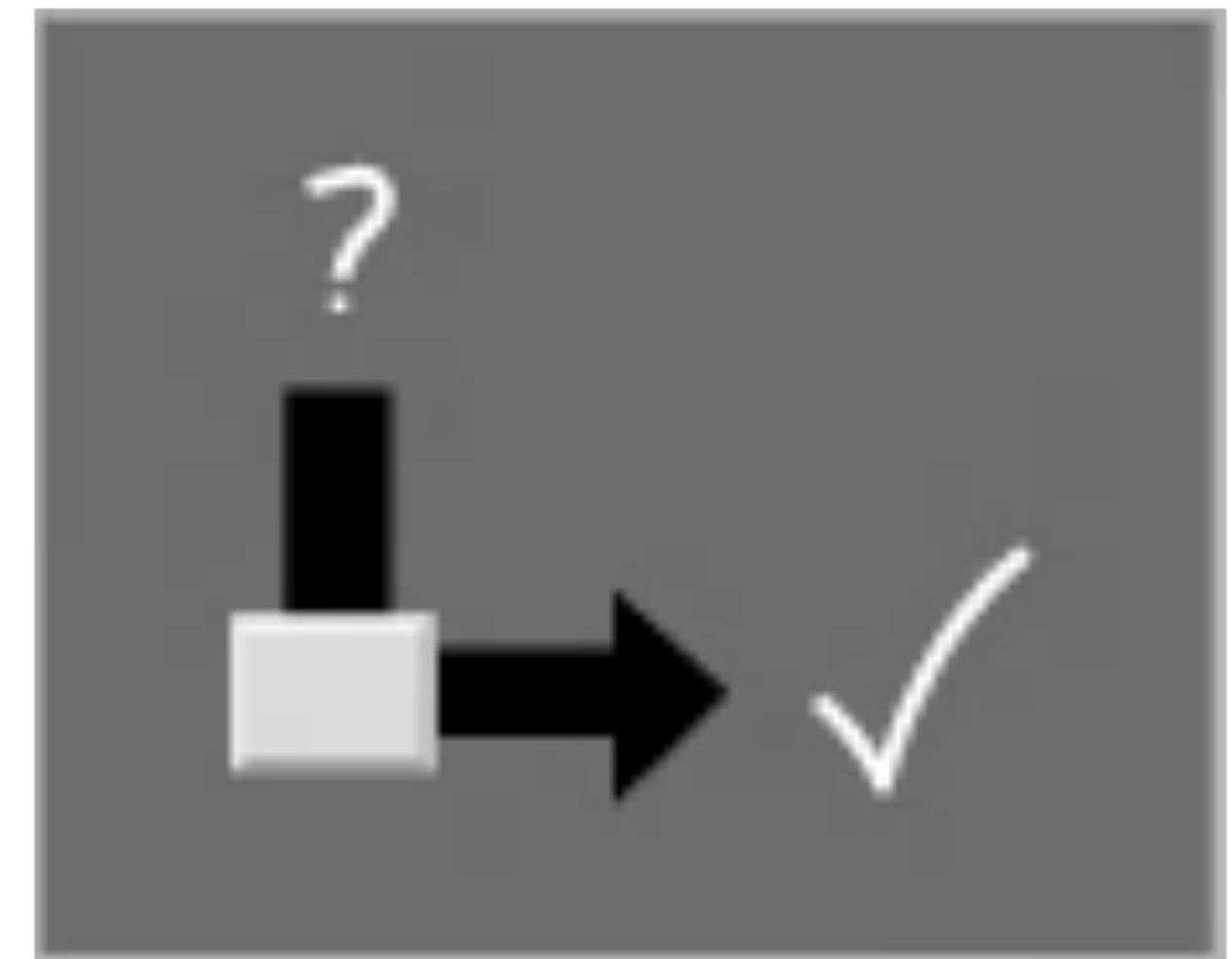
Poor reception

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.

