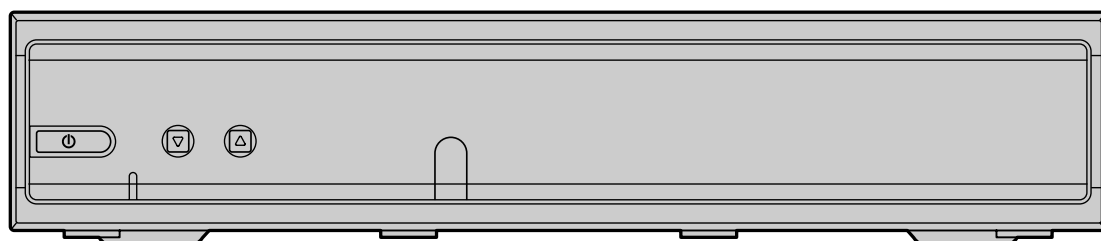


OWNER'S MANUAL

SYLVANIA

ATSC STB **6900DTE**



As an ENERGY STAR® Partner, our company has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

ENERGY STAR® is a U.S. registered mark.

INSTRUCCIONES EN ESPAÑOL INCLUIDAS.

If you need additional assistance for set-up or operating after reading owner's manual, please call
TOLL FREE : 1-800-968-3429.
Or visit our **WEB SITE** at <http://www.funai-corp.com>

Please read before using this equipment.

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WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION:

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



THIS SYMBOL INDICATES THAT DANGEROUS VOLTAGE CONSTITUTING A RISK OF ELECTRIC SHOCK IS PRESENT WITHIN THIS UNIT.



THIS SYMBOL INDICATES THAT THERE ARE IMPORTANT OPERATING AND MAINTENANCE INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.

The caution marking is located on the rear of the cabinet.

IMPORTANT SAFEGUARDS

1. Read instructions- All the safety and operating instructions should be read before the appliance is operated.

2. Retain Instructions- The safety and operating instructions should be retained for future reference.

3. Heed Warnings- All warnings on the appliance and in the operating instructions should be adhered to.

4. Follow Instructions- All operating and use instructions should be followed.

5. Cleaning- Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

EXCEPTION: A product that is meant for uninterrupted service and, that for some specific reason, such as the possibility of the loss of an authorization code for a CATV converter, is not intended to be unplugged by the user for cleaning or any other purpose, may exclude the reference to unplugging the appliance in the cleaning description otherwise required in item 5.

6. Attachments- Do not use attachments not recommended by this product manufacturer as they may cause hazards.

7. Water and Moisture- Do not use this product near water-for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.

8. Accessories- Do not place this product on an unstable cart, stand, tripod, bracket, or table. This product may fall, causing serious injury to someone, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with this product. Any mounting of the appliance should follow the manufacturer's instructions and should use a mounting accessory recommended by the manufacturer. An appliance and cart combination should be moved with care.

Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



AMEUBLES- Cet appareil ne doit être placé que sur un meuble (avec ou sans roulettes) recommandé par le fabricant. Si vous l'installez sur un meuble à roulettes, déplacez les deux ensembles avec précaution. Un arrêt brusque, l'utilisation d'une force excessive et des surfaces irrégulières risquent de déstabiliser l'ensemble et de le renverser.



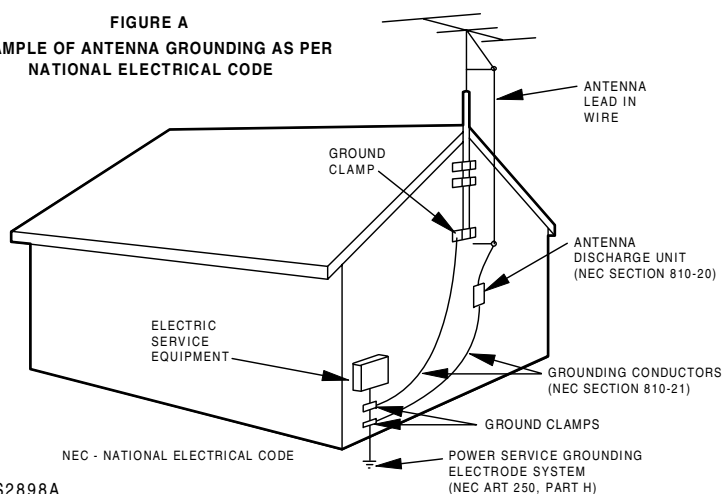
9. Ventilation- Slots and openings in the cabinet and the back or bottom are provided for ventilation and to ensure reliable operation of this product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing this product on a bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

10. Power Sources- This product 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 supply to your home, consult your appliance dealer or local power company. For this products intended to operate from battery power, or other sources, refer to the operating instructions.

11. Grounding or Polarization- This product is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

12. Power-Cord Protection- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

FIGURE A
EXAMPLE OF ANTENNA GROUNDING AS PER
NATIONAL ELECTRICAL CODE



S2898A

13.Outdoor Antenna grounding-If an outside antenna or cable system is connected to this product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA No. 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. (Fig. A)

14.Lightning-For added protection for this product receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to this product due to lightning and power-line surges.

15.Power Lines-An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

16.Overloading-Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

17.Object and Liquid Entry-Never push objects of any kind into this product through openings 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 this product.

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

19.Damage Requiring Service-Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power-supply cord or plug is damaged or frayed.
- If liquid has been spilled, or objects have fallen into this product.
- If this product has been exposed to rain or water.
- If this product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore this product to its normal operation.
- If this product has been dropped or damaged in any way.
- When this product exhibits a distinct change in performance-this indicates a need for service.

20.Replacement Parts-When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, injury to persons or other hazards.

21.Safety Check-Upon completion of any service or repairs to this product, ask the service technician to perform routine safety checks to determine that this product is in proper operating condition.

22.Heat-This product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

ATTENTION: POUR ÉVITER LES CHOC ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

Precautions

Location

For safe operation and satisfactory performance of this product, keep the following in mind when selecting a place for its installation:

- Shield it from direct sunlight and keep it away from sources of intense heat.
- Avoid dusty or humid places.
- Avoid places with insufficient ventilation for proper heat dissipation. Do not block the ventilation holes at the top and bottom of the unit. Do not place the unit on a carpet because this will block the ventilation holes.
- Install unit in a horizontal position.
- Avoid locations subject to strong vibration.
- Do not place this product near strong magnetic fields.
- Avoid moving this product to locations where temperature differences are extreme.

Avoid the Hazards of Electrical Shock and Fire

- Do not handle the power cord with wet hands.
- Do not pull on the power cord when disconnecting it from an AC wall outlet. Grasp it by the plug.
- If by accident, water is spilled on your unit, unplug the power cord immediately and take the unit to our Authorized Service Center for servicing.
- Do not put your fingers or objects into this product cassette holder.
- Do not place anything directly on top of the unit.

IMPORTANT COPYRIGHT INFORMATION

Unauthorized recording or use of broadcast television programming, video tape, film or other copyrighted material may violate applicable copyright laws. We assume no responsibility for the unauthorized duplication, use or other acts which infringe upon the rights of copyright owners.

FCC WARNING- This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

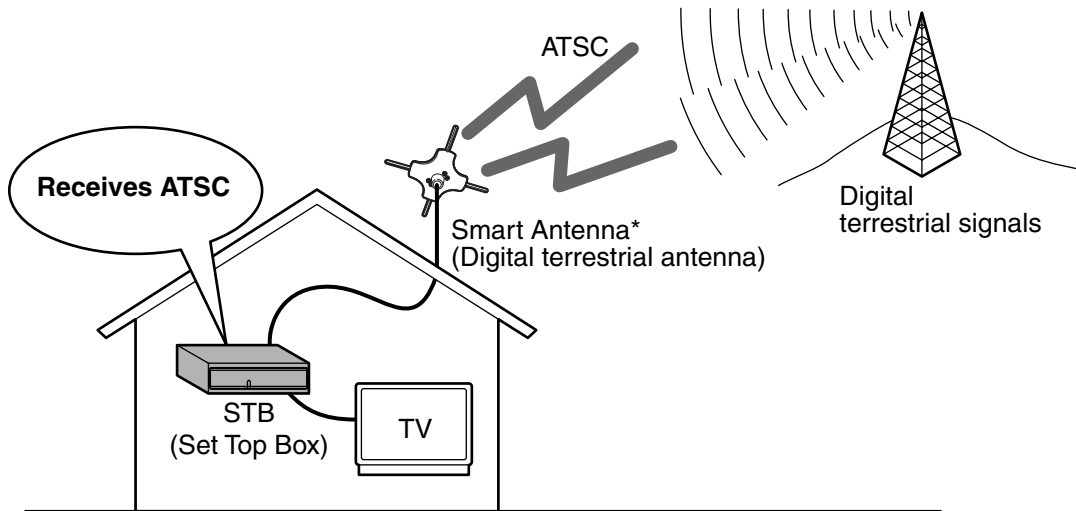
However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- 1) Reorient or relocate the receiving antenna.
- 2) Increase the separation between the equipment and receiver.
- 3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- 4) Consult the dealer or an experienced radio/TV technician for help.

The serial number of this product may be found on the back of the unit. No others has the same serial number as yours. You should record the number and other vital information here and retain this book as a permanent record of your purchase to aid identification in case of theft. Serial numbers are not kept on file.

Date of Purchase	
Dealer Purchase from	
Dealer Address	
Dealer Phone No.	
Model No.	
Serial No.	

Information on digital broadcasting



Digital broadcasting is the most advanced format of broadcasting, employing a new technology for compression of audio and video signals which allows broadcasters to transmit digital signals using existing terrestrial systems.

Due to this dramatic progress, new features of broadcasting service such as widescreen formats and higher definition provide ways to experience the full benefits of digital transmission.

High Definition Television (HDTV*) broadcasts can provide pictures twice as sharp as a conventional broadcast and features sound encoded with Dolby Digital* 5.1 surround sound. Connection to a receiver (sold separately) with Dolby Digital decoding provides a true theater experience in the home.

Digital broadcasting overcomes problems experienced with analog television such as ghosting, "snowy" pictures and interference. Digital television has a dramatic effect on these problems by its very nature. In addition, the number of channels available has dramatically increased, so that you can make the best choice among the variety of programs anytime with a clear picture.

The benefits extend not only to HDTV. It is also possible to transmit multiple Standard Definition Television (SDTV*) programs within the same bandwidth. Some data capacity can also be allocated to provide more effective closed captioning or multiple language soundtracks.

Your current TV should be used for its entire service life.
STB (Set Top Box) will make this possible.

Major features of STB

- Capable of receiving digital (ATSC*) broadcasts
- Capable of receiving High Definition TV (HDTV*) or Standard Definition TV (SDTV*) broadcasts
- Capable of receiving Dolby Digital* 5.1 audio
- Digital audio output through optical or coaxial jack
- Alternative languages for OSD (English, Spanish and French)
- DVI-D* HDCP* output jack
- Component video output jacks (Y/ Pb/ Pr)
- Sub-channels* through a single digital channel
- Smart Antenna* control

ATSC - Advanced Television Systems Committee:

This group is working to establish the standards for digital television broadcasting and digital television equipment for both SDTV and HDTV.

HDTV - High Definition Television:

HDTV signal formats are 1080i (interlaced scan) and 720p (progressive scan). HDTV provides the highest resolution picture and audio in either stereo or 5.1 channel surround sound.

SDTV - Standard Definition Television:

SDTV signal formats are 480p and 480i. SDTV provides lower resolution, yet presents a very sharp, clear picture. Lower resolution allows broadcasters to transmit multiple programs per channel.

Dolby Digital:

Dolby Digital can provide 6 independent soundtrack channels through the DIGITAL AUDIO OUT (OPT. or COAX.) jack. Connect to an external Digital Audio receiver/decoder to enjoy more dynamic and realistic sound at home.

DVI - Digital Visual Interface:

This interface transmits the video signal digitally, so there is less deterioration, which results in a higher quality picture. When connected to a HDCP-compliant television you can also watch copy-protected movies and television programs.

HDCP - High-bandwidth Digital Content Protection:

Digital broadcasting allows you to view high-resolution movies and television programs in your own home. HDCP technology prevents these high-quality images from copyright infringement.

Sub-Channel:

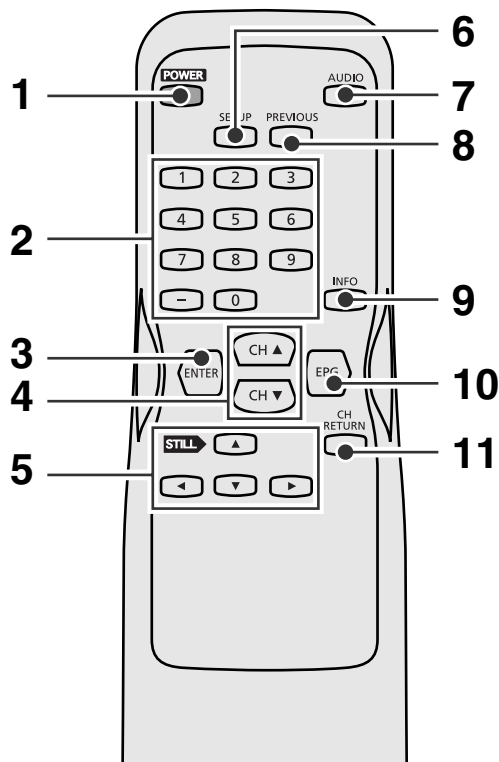
The compression of audio and video signals enables each digital channel to carry different programs on sub-channels. Select them by simply pressing CH ▲ / ▼ buttons on your remote control when available.

Smart Antenna:

The Smart Antenna conforms to the CEA-909 standard. The STB controls the Smart Antenna, automatically tuning to strong signals, so you do not have to worry about the antenna once you have completed initial installation and setup.

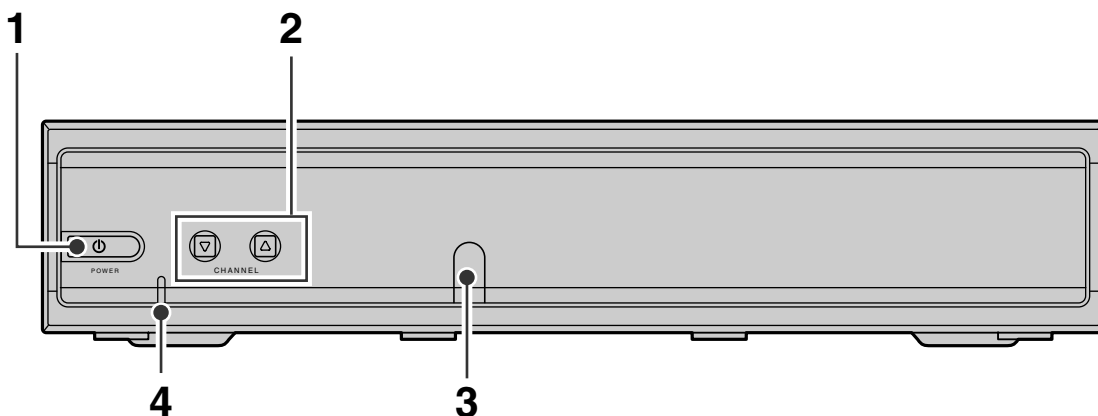
Location of controls

REMOTE CONTROL



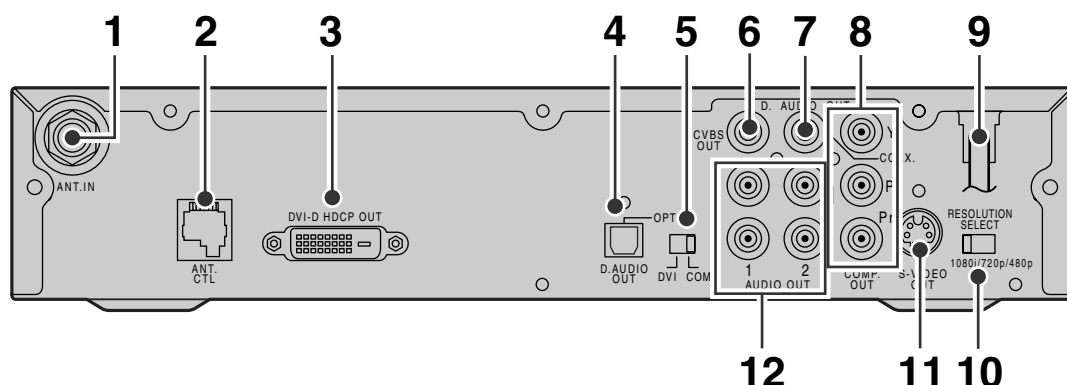
- 1 POWER button:** Turns STB on and off.
- 2 Number buttons:** Input channel numbers, passwords and to set time.
- 3 ENTER button:** In SETUP menu, press to enter your selection.
- 4 CH ▲ / ▼ buttons:** Change the channels up or down.
- 5 Navigation buttons ▲ / ▼ / ◀ / ▶ :** Moves the highlight up, down, left or right.
Press STILL ▲ to still the video while you continue to listen to the audio.
- 6 SETUP button:** Enters or quits SETUP menu.
- 7 AUDIO button:** Selects alternative audio languages (if available).
- 8 PREVIOUS button:** Returns to the previous screen in SETUP menu or exits from the menu.
- 9 INFO button:** Displays information on the channel banner or clears the banner.
- 10 EPG button:** Displays or exits the Electronic Program Guide.
- 11 CH RETURN button:** Returns to the channel you were last watching.

FRONT PANEL



- 1 POWER button:** Turns STB on and off.
- 2 CHANNEL ▲ / ▼ buttons:** Change the channels up or down.
- 3 Remote control sensor:** Receives signals from your remote control so you can control the STB from a distance.
- 4 POWER indicator :** Lights up while STB is on.
When you turn the STB on, it blinks first and then lights up.
When you turn the STB off, it blinks first and then goes off.

REAR PANEL



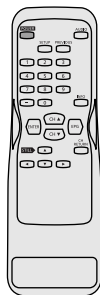
- 1 ANT. IN jack:** Connect an antenna.
- 2 ANT. CTL jack:** Connect the control cord of the smart antenna. Not for phone jack.
- 3 DVI-D HDCP OUT jack:** Use this connection or the COMP.OUT jacks to enjoy HDTV. Connect a television that conforms to EIA-861 and HDCP. Some HD Monitors designed for PC applications using the DVI-D jack may not work with this connection.
- 4 DIGITAL AUDIO OUT (OPT.) jack:** Connect a decoder or an amplifier with a digital optical cable. Use this jack or the coaxial jack to connect to a receiver with Dolby Digital for Dolby Digital 5.1 playback.
- 5 DVI, COMP. switch:** When you have connected to the DVI-D HDCP OUT jack, switch this to DVI. For the COMP. OUT jacks connections, switch to COMP..
- 6 CVBS OUT jack (Composite):** Connect your TV or VCR with a standard video cable.
- 7 DIGITAL AUDIO OUT (COAX.) jack:** Connect a decoder or an amplifier with a digital coaxial cable. Use this jack or the optical jack to connect to a receiver with Dolby Digital for Dolby Digital 5.1 playback.
- 8 COMP. OUT jacks (Y/ Pb/ Pr):** Use this connection or the DVI-D HDCP OUT jack to enjoy HDTV. Connect your TV with component video cables.
Y (green), Pb (blue), Pr (red)
- 9 AC power cord:** Connect to AC outlet.
- 10 RESOLUTION SELECT switch (1080i/ 720p/ 480p):** Select the STB video output resolution - 1080i, 720p or 480p. The default setting is 1080i. Change this setting to suit your television when you have connected through either the DVI-D HDCP OUT jack or the COMP. OUT jacks.
- 11 S-VIDEO OUT jack:** Connect your TV with an S-Video cable.
- 12 AUDIO OUT jacks (2 pairs):** Connect your TV, stereo system or VCR to with standard audio cables.
NOTE for audio output: Both digital and analog audio are output during digital broadcasts. When you want digital audio output, connect a digital decoder to the digital audio (coaxial or optical) jack. Refer to the page describing connection to a decoder with Dolby Digital.

Before Using

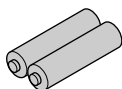
Accessories

Check the following accessories when unpacking the STB:

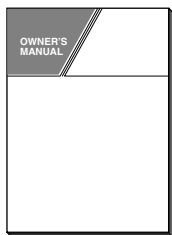
Remote control: NE144UD



2 AA batteries

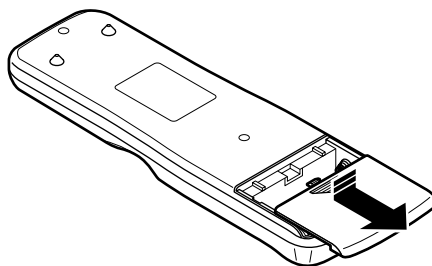


Owner's manual: OEMN02517

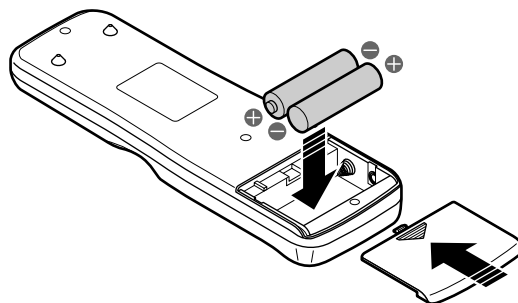


Installing batteries

- 1 Unsnap the battery cover from the back of the remote control.



- 2 Install two AA batteries making sure the polarity (+ / -) is correct.



NOTE:

When replacing batteries, replace them in pairs.

- 3 Snap the battery cover back.

CAUTION:

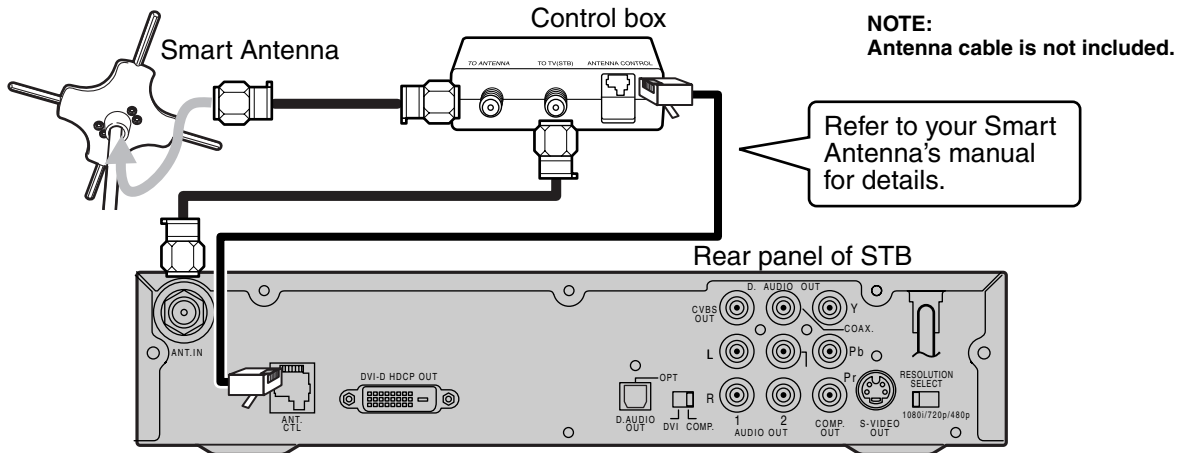
- Do not mix battery types (alkaline and manganese).
- Do not recharge, short-circuit, heat, burn or disassemble batteries.

A NOTE ABOUT RECYCLING

This product's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with your local recycling regulations.

Batteries should never be thrown away or incinerated but disposed of in accordance with your local regulations concerning chemical wastes.

Connecting the Smart Antenna



Before connecting, ensure the AC power cord is NOT connected to the AC outlet.
To connect the Smart Antenna, refer to your Smart Antenna's manual for details.

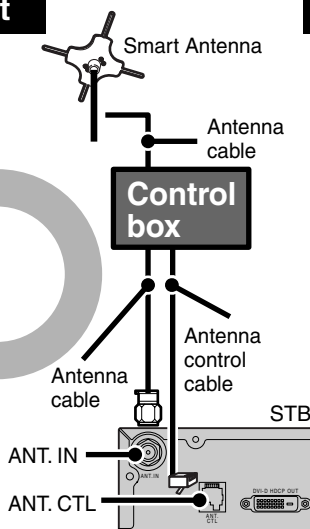
- 1 Use a 75 ohm coaxial antenna cable to connect the Smart Antenna to the TO ANTENNA jack on the control box.
- 2 Use another 75 ohm coaxial antenna cable to connect the TO TV (STB) jack on the control box to the ANT. IN jack on the STB.
- 3 Use the Smart Antenna control cable to connect the ANTENNA CONTROL jack on the control box to the ANT. CTL jack on the STB.
- 4 Refer to pages 14-21 to connect to your audiovisual equipment.

CAUTION

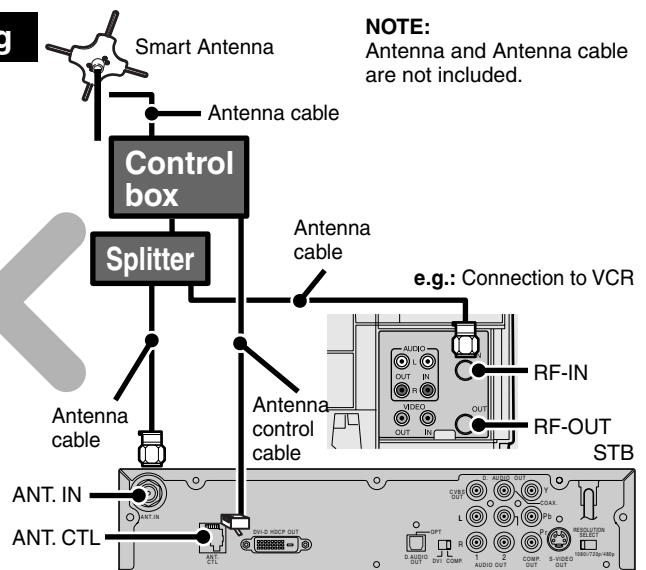
The characteristics of the Smart Antenna mean it is only suitable for connection to one STB.
Connect one STB to one Smart Antenna.

Do not connect other equipment between the control box, the Smart Antenna and STB.

Right



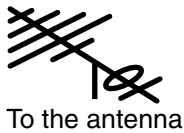
Wrong



NOTE:

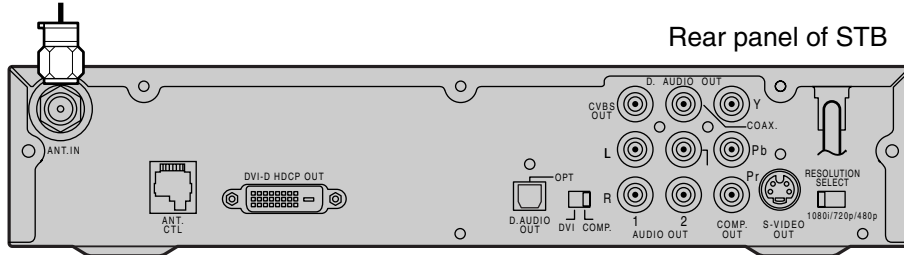
If unit is not connected properly according to diagram unit may experience power failure.

Connecting a different antenna

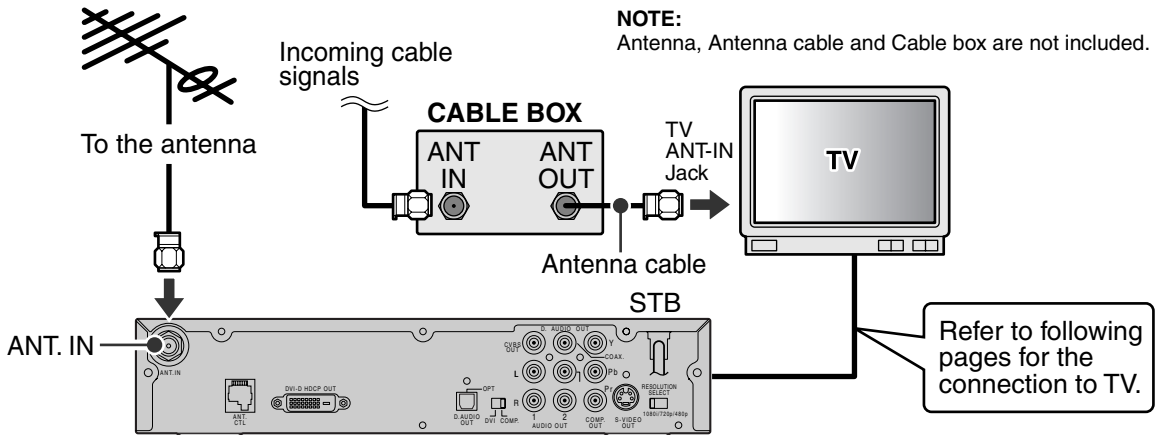


NOTE:

Antenna and Antenna cable are not included.



WHEN CONNECTING TO CABLE BOX ALSO:



Before connecting, ensure the AC power cord is NOT connected to the AC outlet.

- 1 Connect the Smart Antenna (or a different one if you wish). Signal is best when using Smart Antenna.
- 2 Connect the incoming cable to the antenna input jack on the cable box.
- 3 Connect the antenna output jack on the cable box to the antenna input jack on the TV.
- 4 Plug the AC power cord of the TV into the AC outlet, then turn the TV on.
- 5 Select the output channel from the cable box e.g., ch3 or ch 4.

NOTE:

Refer to your television's manual for details.

- 6 Plug the AC power cord of STB into the AC outlet, then turn STB on.
- 7 Refer to pages 14-21 to connect to your audiovisual equipment.

Note to the Cable TV System Installer :

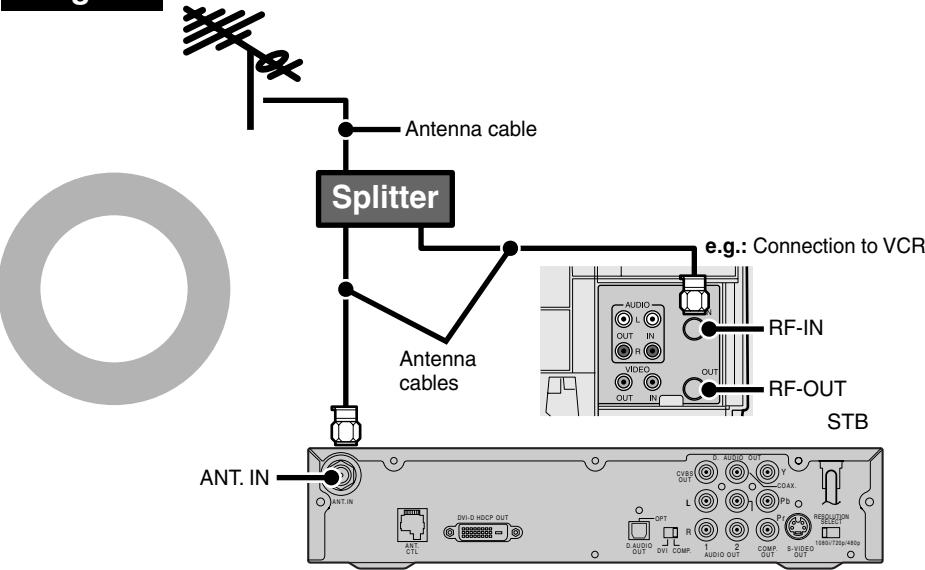
This reminder is provided to call the Cable TV system installer's attention to Article 820-40 of the National Electrical Code, which provides guidelines for proper grounding - in particular, specifying that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as possible.

CAUTION

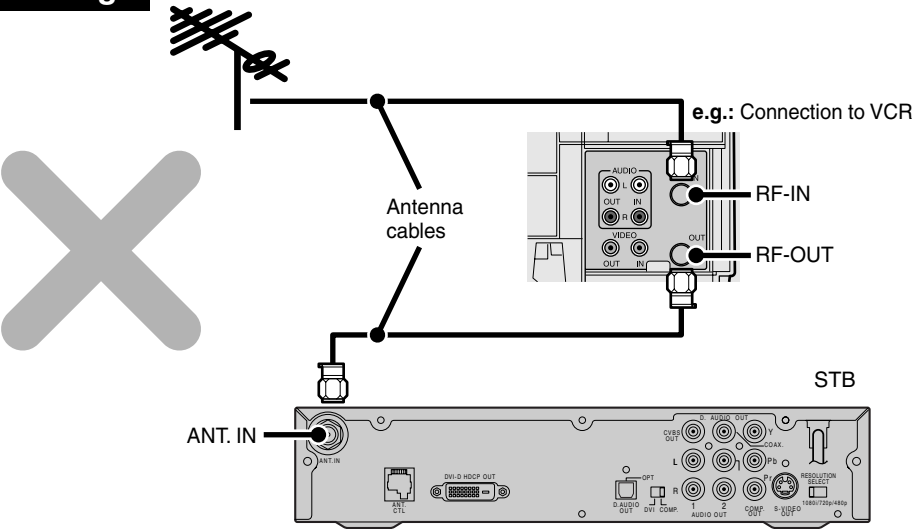
When you connect the antenna cable to another device, be sure to use a splitter as shown below.

Right

NOTE:
Antenna and Antenna cable are not included.



Wrong



TV/Monitor Connections

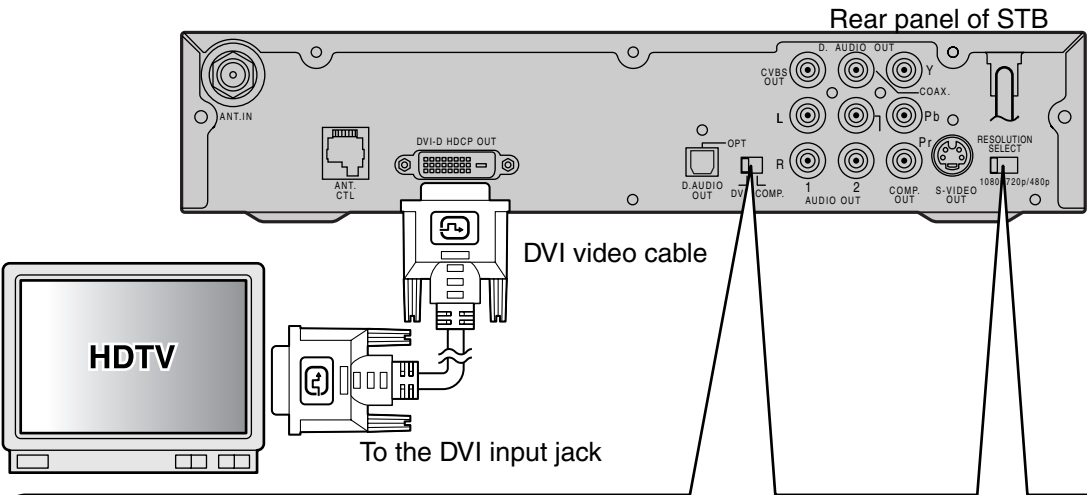
There are various ways of connecting the STB to a TV or monitor. Connect according to your equipment and screen format. The following pages show some sample connections.

- Choose one type of video connection (unless you also want to connect a recording device).
- When changing connections, turn all devices off.
- Refer to each owner’s manual for further information on other devices.
- After connecting the TV or monitor, choose the type of audio connection you want.

STB connection using DVI-D HDCP OUT jack to HDTV

e.g.: Connection to HDTV

NOTE:
DVI video cable is not included.



Output selection switch (DVI, COMP.)

See your television’s manual for details on the types of jacks it has.

Position of output selection switch	
	Switch to DVI. The STB outputs video through the DVI-D HDCP OUT jack, at the resolution you select with the RESOLUTION SELECT switch.

RESOLUTION SELECT switch (1080i/720p/480p)

See your television’s manual for details on the resolutions it can handle.

TV resolution	Position of RESOLUTION SELECT switch	
1080i	 1080i/720p/480p	Select 1080i if your television can show 1080i resolution video.
720p	 1080i/720p/480p	Select 720p if your television can show 720p resolution video.
480p	 1080i/720p/480p	Select 480p if your television can show 480p resolution video.

- 1** Refer to "Antenna Connections" to connect the STB to the Smart Antenna (or a different one if you wish).
- 2** Use a DVI (DVI-D) video cable to connect the DVI-D HDCP OUT jack on the STB to the DVI input jack on your television.

NOTE:

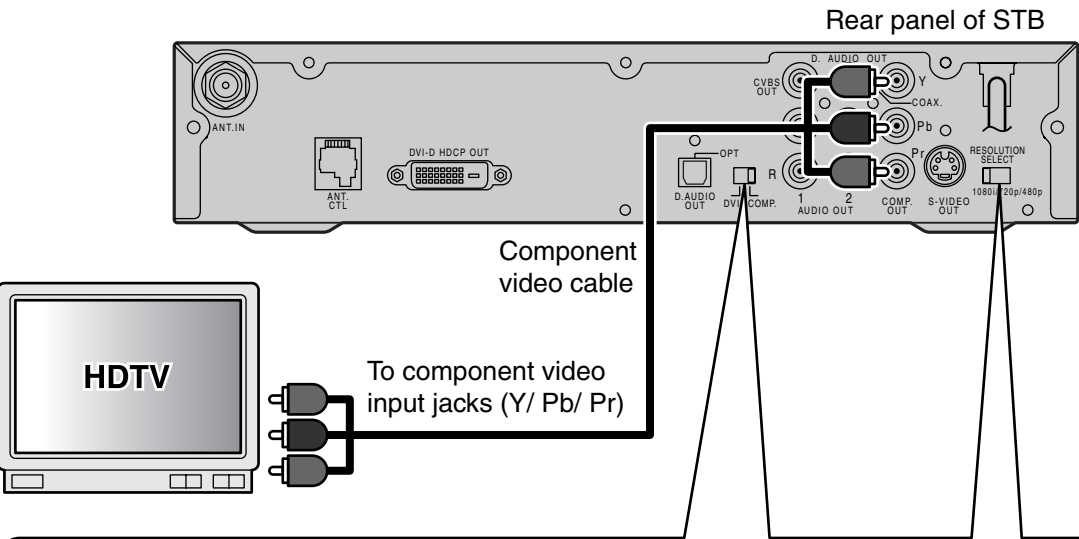
Connect to a DVI input jack that conforms to EIA-861 and HDCP. Some HD Monitors designed for PC applications using the DVI-D jack may not work with this connection. Refer to your television's manual for details.

- 3** Switch the Output selection switch (DVI, COMP.) to "DVI".
- 4** Switch the RESOLUTION SELECT switch (1080i/720p/480p) to suit your television.
Refer to your television's manual for details.
- 5** Plug the AC power cord of the television into the AC outlet and turn the television on.
- 6** Switch the input mode of the television to that corresponding to the DVI input jack.
Refer to your television's manual for details.
- 7** Plug the AC power cord of the STB into the AC outlet and turn it on.

STB connection using COMP. OUT jacks to HDTV

e.g.: Connection to HDTV

NOTE:
Component video cable is not included.



Output selection switch (DVI, COMP.)
See your television's manual for details on the types of jacks it has.

Position of output selection switch	
	Switch to COMP. The STB outputs video through the COMP. OUT (Y, Pb, Pr) jacks, at the resolution you select with the RESOLUTION SELECT switch.

RESOLUTION SELECT switch (1080i/720p/480p)
See your television's manual for details on the resolutions it can handle.

TV resolution	Position of RESOLUTION SELECT switch	
1080i	 1080i/720p/480p	Select 1080i if your television can show 1080i resolution video.
720p	 1080i/720p/480p	Select 720p if your television can show 720p resolution video.
480p	 1080i/720p/480p	Select 480p if your television can show 480p resolution video.

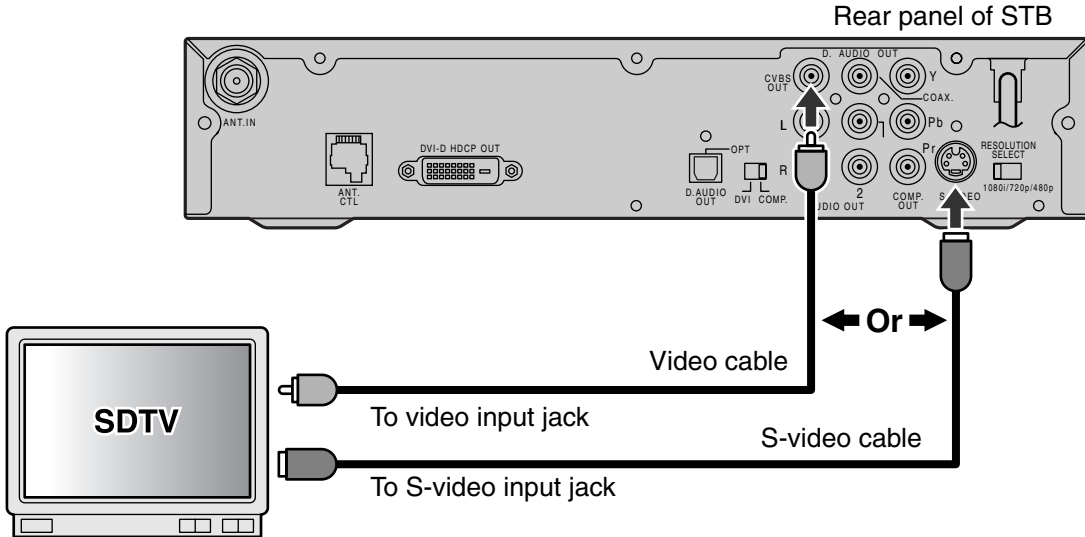
- 1** Refer to "Antenna Connections" to connect the STB to the Smart Antenna (or a different one if you wish).
- 2** Use Component video cables to connect the COMP. OUT (Y/ Pb/ Pr) jacks on the STB to the component video input jacks on your television.
- 3** Switch the Output selection switch (DVI, COMP.) to "COMP."
- 4** Switch the RESOLUTION SELECT switch (1080i/720p/480p) to suit your television.
Refer to your television's manual for details.
- 5** Plug the AC power cord of the television into the AC outlet and turn the television on.
- 6** Switch the input mode of the television to that corresponding to the component video input jacks.
Refer to your television's manual for details.
- 7** Plug the AC power cord of the STB into the AC outlet and turn it on.

STB connection using S-VIDEO OUT or CVBS OUT (Composite) jack to SDTV

e.g.: Connection to SDTV

NOTE:

S-video cable and Video cable are not included.



- 1 Refer to "Antenna Connections" to connect the STB to the Smart Antenna (or a different one if you wish).
- 2 Use an S-video cable to connect the S-VIDEO OUT jack on STB to an S-video input jack on the TV.

OR

Use a standard video cable to connect the CVBS OUT jack (Composite) on STB to a video input jack on your TV.

- 3 Plug the AC power cord of the television into the AC outlet and turn the television on.
- 4 Switch the input mode of the television to that corresponding to the jack you connected to. Refer to your television's manual for details.
- 5 Plug the AC power cord of the STB into the AC outlet and turn it on.

NOTE:

When using either of these connections, the resolution of the video signal output will always be 480i.

There are various ways of connecting the STB to an audio device or video device. Connect according to your equipment. The following pages show some sample connections.

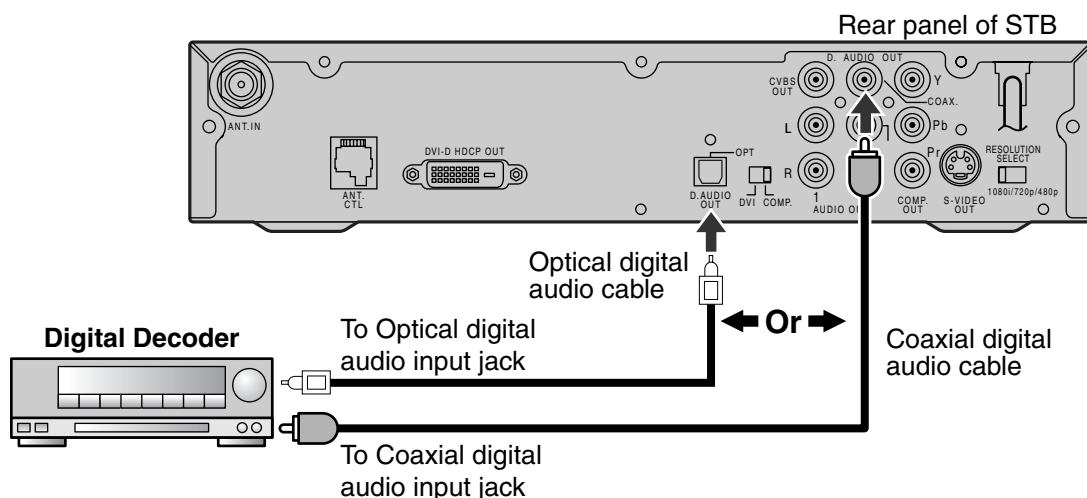
- Choose one type of audio connection (unless you also want to connect a recording device).
- When changing connections, turn all devices off.
- Refer to each owner's manual for further information on other devices.

STB connection to a decoder with Dolby Digital

e.g.: Connection to Digital Decoder

NOTE:

Optical and Coaxial digital audio cables are not included.



- 1 Refer to "Antenna Connections" to connect the STB to the Smart Antenna (or a different one if you wish).
- 2 Refer to "TV/Monitor Connections" to connect STB and the TV with a video cable.
- 3 Connect an Optical or Coaxial digital audio cable from the DIGITAL AUDIO OUT (OPT. or COAX.) jack on STB to an Optical or Coaxial digital audio input jack on the digital decoder.
- 4 Plug the AC power cord of the decoder into an AC outlet, then turn the decoder on.
- 5 Set the decoder to the input mode.
Refer to your decoder's manual for details.
- 6 Plug the AC power cord of STB into an AC outlet and turn it on.

Dolby information:

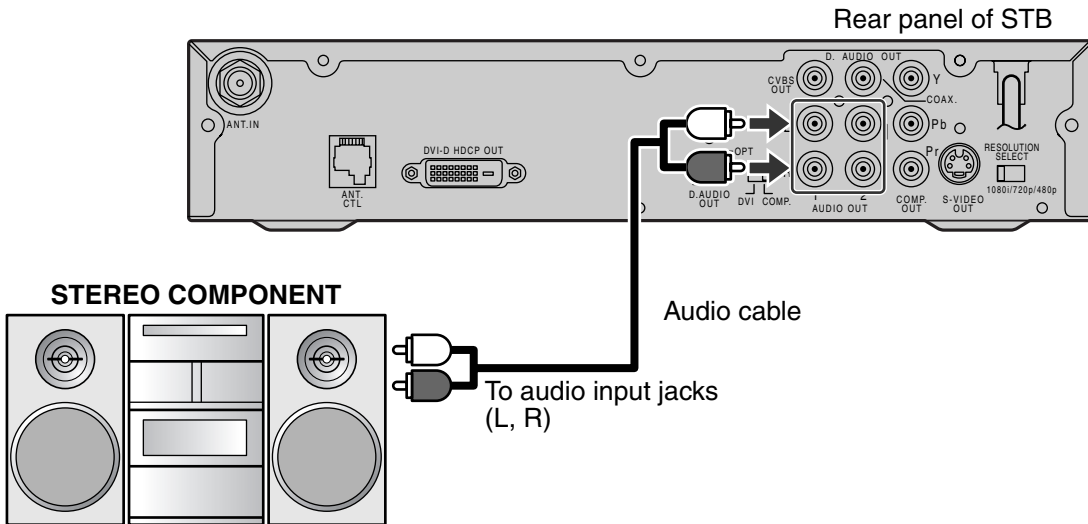
Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

STB connection to a standard stereo system

e.g.: Connection to STEREO COMPONENT

NOTE:

Audio cable is not included.



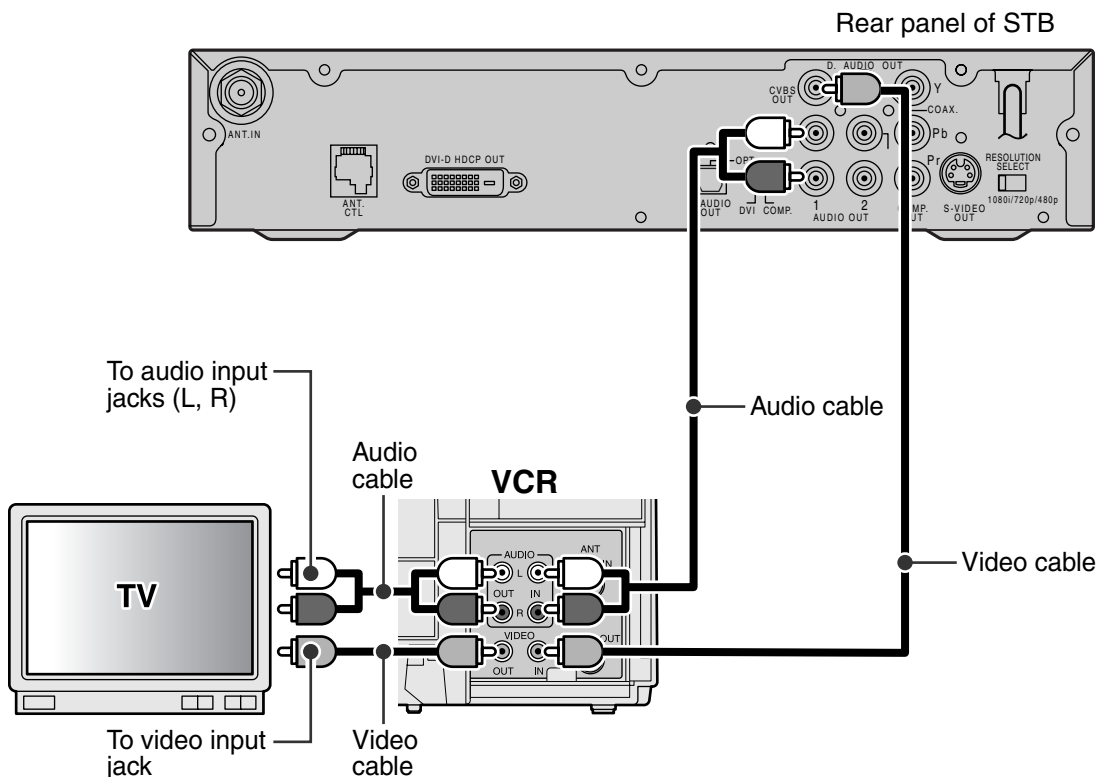
- 1 Refer to "Antenna Connections" to connect the STB to the Smart Antenna (or a different one if you wish).
- 2 Refer to "TV/Monitor Connections" to connect STB and the TV with a video cable.
- 3 Use a standard audio cable to connect the AUDIO OUT jacks (L, R) on the STB to the audio input jacks (L, R) on the stereo.
- 4 Plug the AC power cord of the stereo into the AC outlet, then turn the stereo on.
- 5 Set the stereo to the input mode to which you connected the audio from the STB. Refer to your stereo's manual for details.
- 6 Plug the AC power cord of STB into the AC outlet and turn it on.

STB connection to TV and Video devices (VCR, DVD recorder, etc)

e.g.: Connection to VCR

NOTE:

Audio and Video cables are not included.



- 1 Refer to "Antenna Connections" to connect the STB to the Smart Antenna (or a different one if you wish).
- 2 Use a standard audio cable to connect the AUDIO OUT jacks (L, R) on the STB to the audio input jacks (L, R) on the VCR.

NOTE:

If your VCR is monaural (MONO) and has only one audio jack, use a standard audio cable (white) to connect the AUDIO OUT jack (white) on STB to the audio input jack (white) on the VCR. The red cable and jack will not be used.

- 3 Use a standard video cable to connect the CVBS OUT jack (Composite) on the STB to the video input jack on the VCR.
- 4 Use a standard video cable to connect the video output jack on the VCR to the video input jack on the TV.
- 5 Use a standard audio cable to connect the set of audio output jacks (L, R) on the VCR to the audio input jacks (L, R) on the TV.
- 6 Plug all AC power cords into AC outlets, then turn all devices on.
- 7 Set the TV and VCR to input mode.
Refer to your television's or VCR's manual for details.

NOTE:

When using this connection, the resolution of the video signal output will always be 480i.

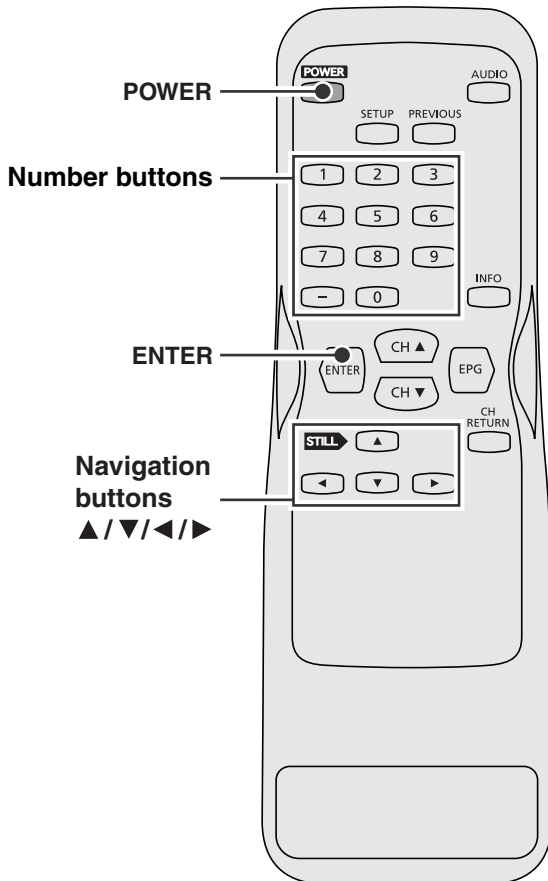
Initial setup

SETUP WIZARD

The SETUP WIZARD is a convenient way for you to customize the settings of STB.

When STB is turned on for the first time after connecting the AC power cord, SETUP WIZARD is displayed on the screen automatically. You can complete the following items for the Initial Setups through this menu.

- Language for screen
- Channel Scanning
- Daylight savings time (DST)
- Time zone
- Year/ date/ time
- Clock
- Screen ratio and display mode

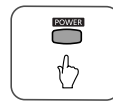


1 Turn the TV on and select the input to which the STB is connected to.

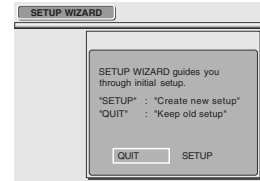
2 Turn the STB on using POWER. SETUP WIZARD appears.

- It takes about 8 seconds to display the SETUP WIZARD after turning the power ON.

Remote:

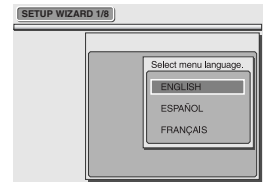
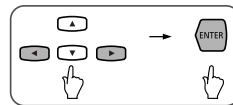


Screen:



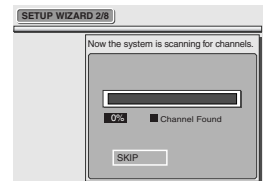
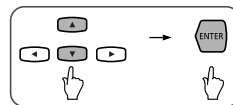
3 Select SETUP using navigation buttons $\blacktriangleleft / \blacktriangleright$, then press ENTER.

- SETUP WIZARD 1/8 appears.



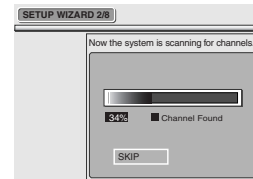
4 Select the language using navigation buttons $\blacktriangle / \blacktriangledown$, then press ENTER.

- The selected language is activated.
- SETUP WIZARD 2/8 appears.



5 STB starts scanning channels.

- Wait until scanning is completed.
- When scanning is completed, "100%" is indicated in the box, then the next screen appears.



To skip scanning:

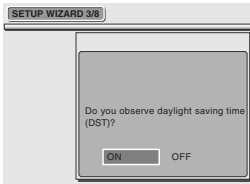
Press ENTER.

NOTE:

- STB receives available digital channels and stores them in a channel map. These channels can then be selected using CH $\blacktriangle$ / $\blacktriangledown$ buttons after Initial Setup.
- If you skip step [5], digital channels may not be received correctly.

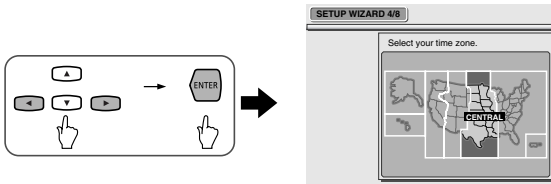
- To get many more digital channels from your Smart Antenna, do the EXTENDED SCAN when you have completed the SETUP WIZARD. See “Receiving channels” on page 39 for details.

6 SETUP WIZARD 3/8 appears.



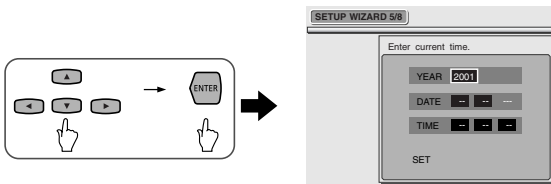
7 Select ON or OFF for Daylight Saving Time (DST) using navigation buttons ◀/▶, then press ENTER.

- SETUP WIZARD 4/8 appears.



8 Select your time zone using navigation buttons ▲/▼/◀/▶, then press ENTER.

- SETUP WIZARD 5/8 appears.

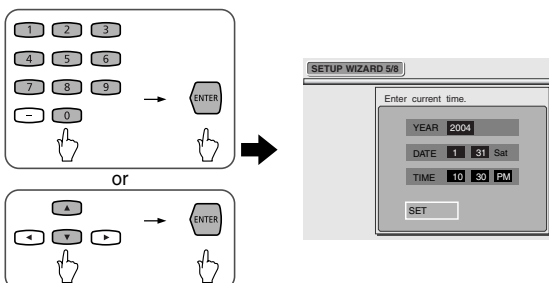


NOTE :

See “INFORMATION on Time Zones ” on pages 44-45.

9 Enter YEAR, DATE and TIME using navigation buttons ▲/▼/◀/▶ or number buttons.

- Every time you enter a number, press ENTER to move the cursor.
- When going back and forth, press navigation buttons ◀/▶ to move the cursor.



NOTE:

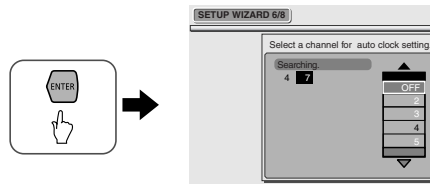
After all information is entered, the cursor moves to SET.

TIP:

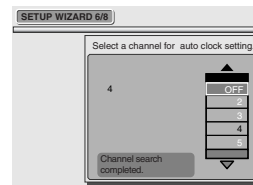
To enter the YEAR, enter the last 2 digits of the year. (e.g., enter “04” and 2004 will be shown.)

10 Press ENTER when the cursor is on SET.

- Your settings are activated.
- SETUP WIZARD 6/8 appears, then STB starts searching for channels with Automatic Clock Adjustment to keep the time correct.

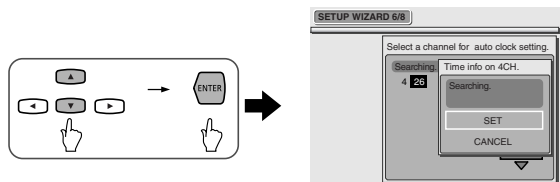


- Channels with clock data are listed and turn black in the channel map.
- “Channel search completed.” appears when the search is completed.
- “No channels found.” appears if the STB could not find any channels with clock data.



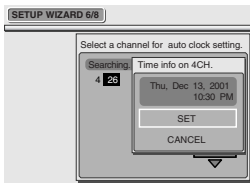
11 Use the navigation buttons ▲/▼ to select the channel you want to gather clock data from in the channel map, then press ENTER.

- If you do not want to use AUTO to set the time, select OFF and press ENTER.
- Five channels appear in the map at a time. Keep pressing the navigation buttons ▲/▼ to show other channels.
- The time info window appears and the STB starts searching for the time info on channel you selected.



Initial Setups (Setup Wizard)

- When the STB has finished gathering the time information, the current date and time according to the channel appears.
- “No time info.” appears if the STB could not find time information from the channel you selected.

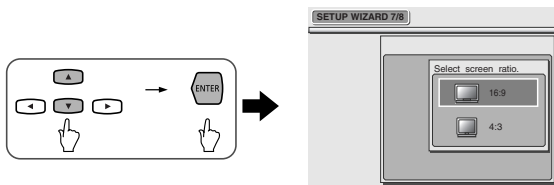


NOTE:

Unit should not be left on for a long period of time, it may cause over heating.

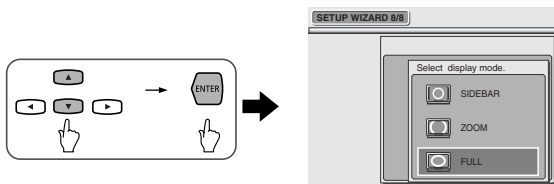
12 If this information shown is satisfactory, use the navigation buttons ▲/▼ to select SET and press ENTER.

- SETUP WIZARD 7/8 appears.
- If the time shown is incorrect or the time isn't shown, select CANCEL, press ENTER. Then, repeat steps [11] and [12] using another channel.



13 Select the screen ratio using navigation buttons ▲/▼, then press ENTER.

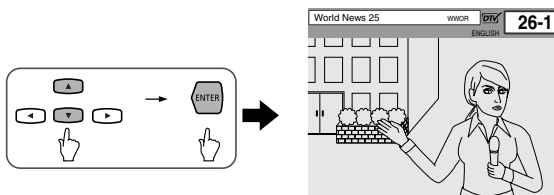
- SETUP WIZARD 8/8 appears.



See “Selecting screen formats” on page 41 for details.

14 Select the desired display mode using navigation buttons ▲/▼, then press ENTER.

- SETUP WIZARD is completed.
STB starts receiving broadcasts.

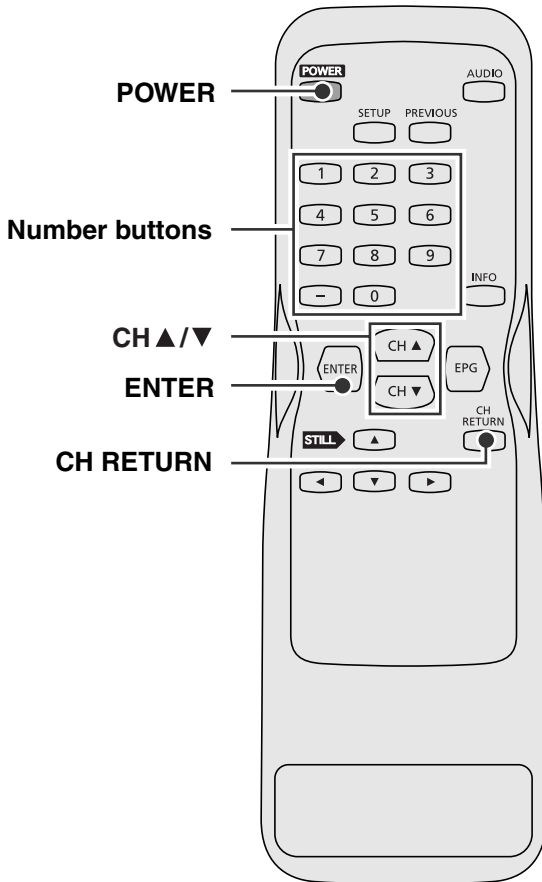


See “Selecting screen formats” on page 41 for details.

Watching TV

STB can receive digital (ATSC format) broadcasts. Tune to the available digital channels with the CH ▲/▼ buttons and number buttons on the remote control.

Each channel number consists of a main channel number and a sub-channel number.

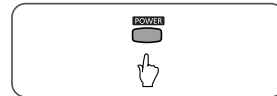


1 Turn the TV on and select the input to which the STB is connected to.

2 Turn the STB on using POWER.

- The power indicator on the front panel blinks then lights up.

Remote:



3 Selecting channels.

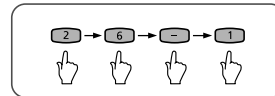
When using CH ▲/▼ buttons:

- Press CH ▲ button to tune a higher channel number.
- Press CH ▼ button to tune a lower channel number.

Complete AUTOSCAN (limited digital channels) in SETUP WIZARD or EXTENDED SCAN in the SETUP menu so that STB receives all available digital channels.

When using number buttons (E.g., entering 26-1):

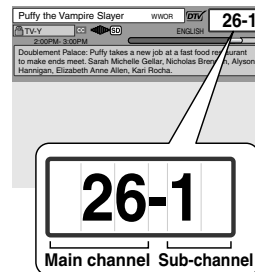
- Enter the main channel number, press the “-” button, then enter the sub-channel number.



NOTE:

Every channel number consists of a main channel and a sub-channel.

Screen:

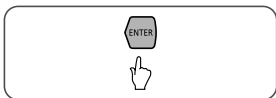


TIP:

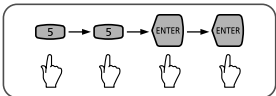
Press the “-” button before entering the sub-channel number.

Basic Operation

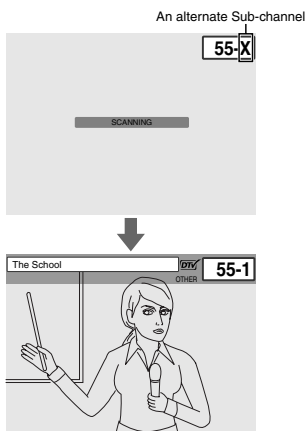
2. Press ENTER.
- STB tunes in channel 26-1 and the program being broadcast appears.



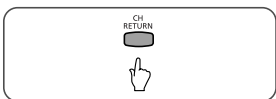
To select only with a main channel number (E.g., 55):



- X appears momentarily as an alternate sub-channel, then STB receives the sub-channel with the smallest sub-channel number.



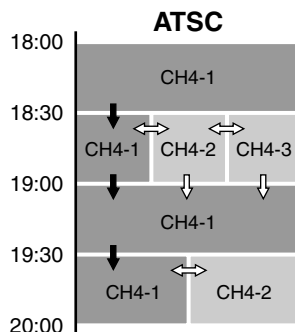
To return to the channel you were last watching:



- The STB returns to the channel you were last watching.

About sub-channel broadcasting:

There may be different programs being broadcast on sub-channels through a single channel. You can watch each sub-channel program by selecting one of the sub-channels.



➡ : changes automatically

⇔ : change manually by pressing CH▲/▼ button on your remote control.

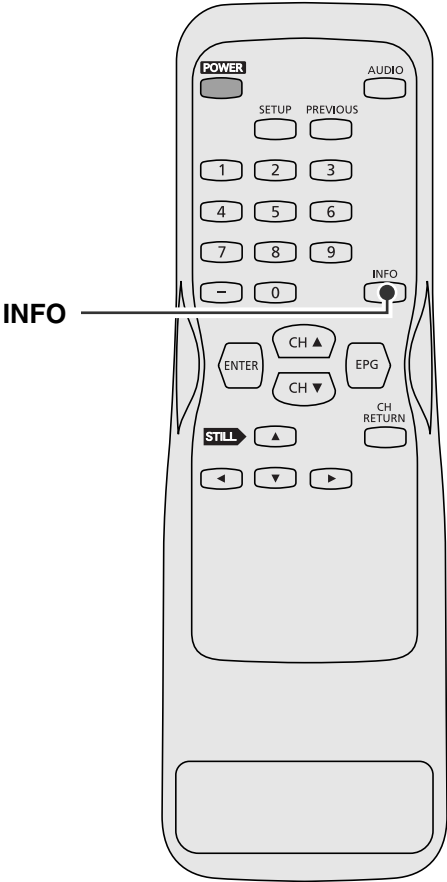
NOTE:

NO SIGNAL appears after the sub-channel broadcast is over.

Change the channel to continue watching.

Channel banner

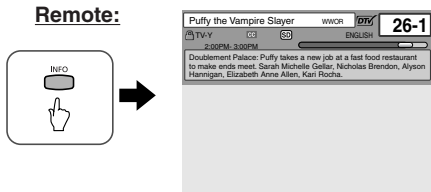
The channel banner provides you with information on the channel you have selected.



1 Press INFO to display the channel banner.

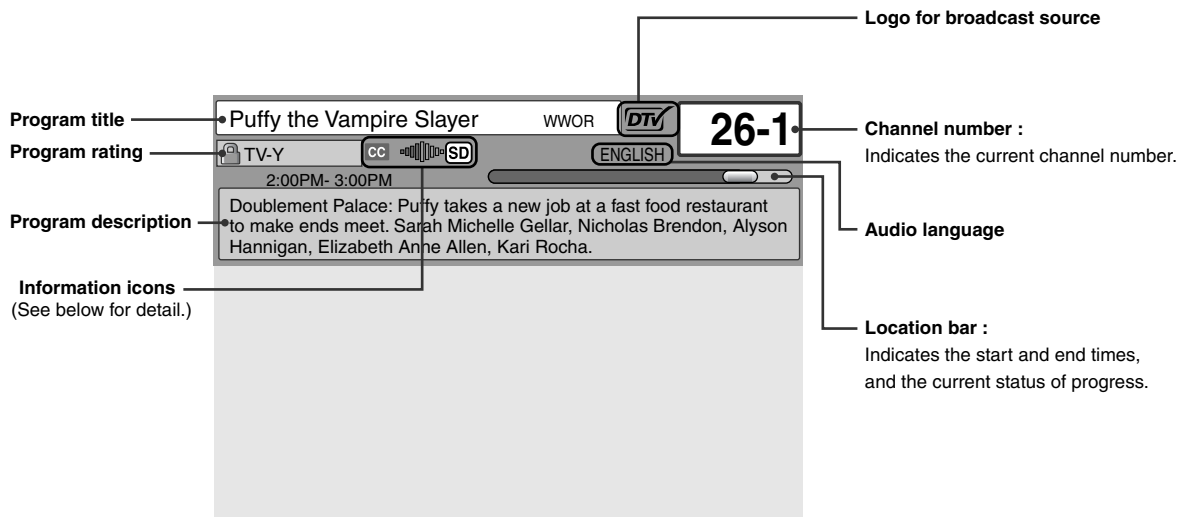
- Channel information appears in the channel banner.

Screen:



2 Press INFO to clear.

Components of Channel Banner



Information icons



DTV:

Indicates that you are tuning in a digital channel.



HD (High Definition):

Indicates that the program being broadcast has a high definition signal with screen ratio 16:9.



SD (Standard Definition):

Indicates that the program being broadcast has standard definition signal with screen ratio 16:9.



SD (Standard Definition):

Indicates that the program being broadcast has standard definition signal with screen ratio 4:3.



LOCK:

Indicates that the current program is blocked according to your V-CHIP setting.



CC (Closed Caption):

Indicates that the program being broadcast is available with closed captioning.



V-CHIP/CC:

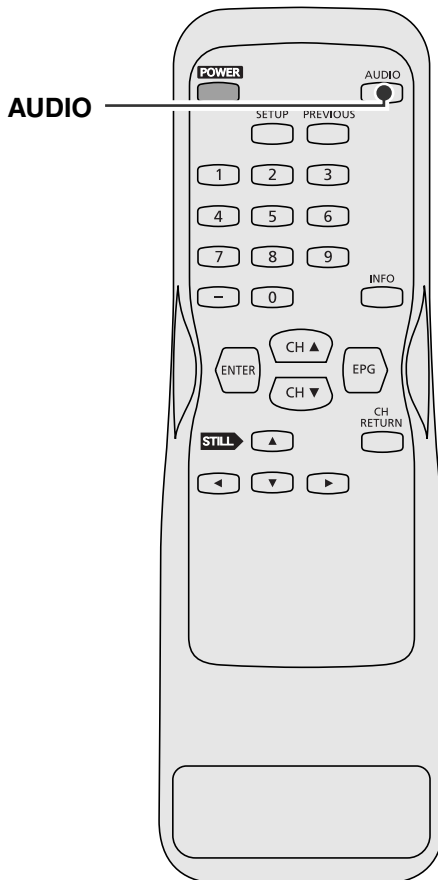
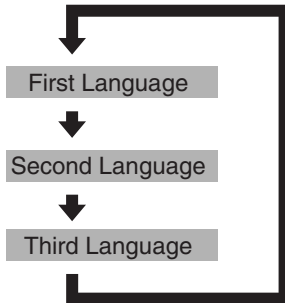
Indicates that V-CHIP/CC has been set to TV.
Refer to "Setting for V-CHIP/CC" on page 49 for further information.

Choosing audio and language

You can change languages through an audio-map when the channel provides alternate languages.

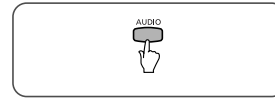
Audio map:

Languages from a station are stored in an audio-map. For example, when three languages are available, the sequence below repeats and the desired language can be set.



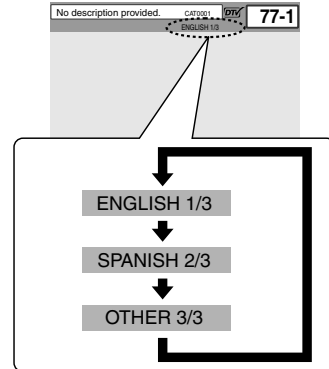
1 Press AUDIO.

Remote:



The sequence repeats according to the audio-map.

Screen:



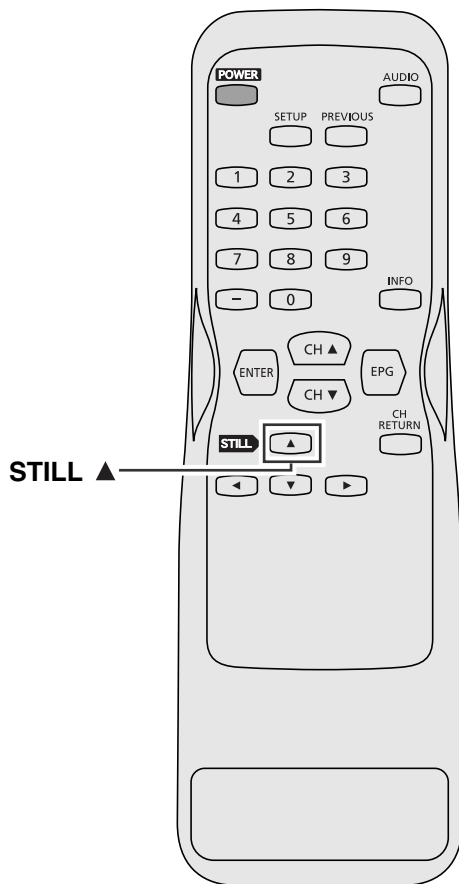
NOTE:

OTHER is indicated when the language is not English, Spanish or French.

* For international stations audio language will still be displayed as English.

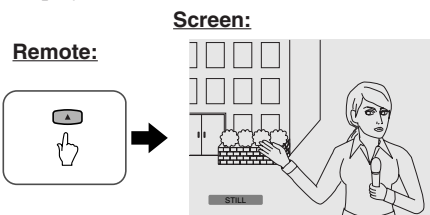
Picture Still

You can stop the picture on the screen anytime by pressing STILL ▲ button.



1 Press STILL ▲ button while watching TV.

- STILL is indicated on the lower left while the picture is displayed.



The program's audio continues.

2 Press any button to quit.

- The picture currently being broadcast appears.

NOTE:

If the TV is left on STILL for a long period of time, the still image may cause a burn-in effect damaging the TV screen.

On screen messages

Some messages are displayed on the screen during channel changing or during programs.

NO SIGNAL

When STB cannot receive a channel signal, the whole screen becomes gray, then NO SIGNAL appears in the center.

This may occur when:

- the signal is too weak
(when using the Smart Antenna, it automatically searches for the strongest signal.)
- the channel is not broadcasting
- the antenna cable is not connected

SCANNING

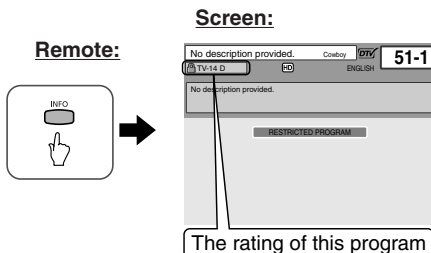
When STB is trying to receive a signal, the whole screen becomes gray, then SCANNING appears in the center.

RESTRICTED PROGRAM

When you have set V-CHIP and you receive a program that meets any setting of yours, the whole screen becomes gray, then RESTRICTED PROGRAM appears in the center.

See “Setting MPAA rating” on page 51 or “Setting TV rating” on page 53 for further information.

Press INFO to verify the rating of a program currently being received.



This program is protected and cannot be viewed on TV without HDCP-compliant DVI.

To watch this program, select “COMP.” by DVI/COMP. Select Switch and use video output other than DVI.

The STB receives digital broadcasts with embedded “broadcast flag” and enciphers them with the HDCP system and outputs them from the DVI-D HDCP jack.

Your television must also be HDCP-compliant to view them via DVI jack. This message appears if your television is not compliant with HDCP.

You can still view the program, by using another type of video connection. See “TV/Monitor Connections” for the alternatives and switch the output selection switch (DVI/COMP.) on back of STB to COMP.

“Broadcast flags” are digital codes embedded in digital broadcasting streams that signal the STB to limit indiscriminate redistribution of content.

Electronic Program Guide (EPG)

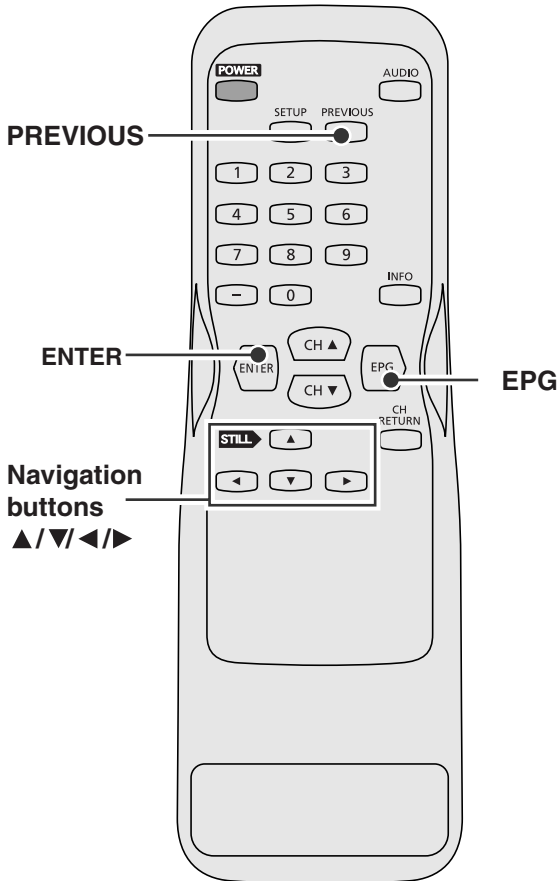
Electronic Program Guide (EPG) is an application for digital channels that lists current and scheduled programs that are or will be available on each channel and a short summary or commentary for each program.

EPG is the electronic equivalent of a printed television program guide.

You can view a list of programs scheduled for the next few hours up to the next seven days.

NOTE:

For displaying EPG, you will need to set TIME ZONE, DST and MANUAL CLOCK in SETUP WIZARD or in SETUP menu.

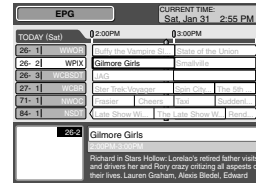


1 Press EPG button while watching TV.

- EPG appears on the screen.

Screen:

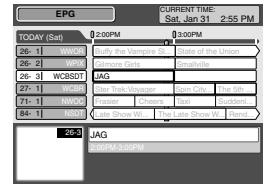
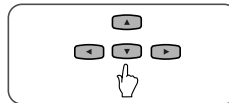
Remote:



See “Components of Electronic Program Guide (EPG)” on page 33 for details.

2 Select the desired program using navigation buttons ▲/▼/◀/▶.

- The cursor moves as you press any navigation button.



To view EPG for the next two hours up to the next seven days:

Press navigation button ▶.

- EPG for the next two hours appears.
- Keep pressing navigation button ▶ to move the EPG ahead.

To go back to the previous page:

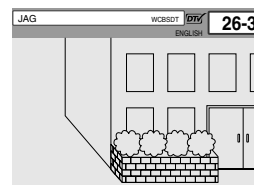
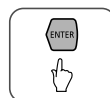
Press navigation button ◀.

- EPG for the previous page appears.
- Keep pressing navigation button ◀ to move the EPG ahead.

3 Press ENTER.

When you select a program being broadcast:

- The selected program appears.

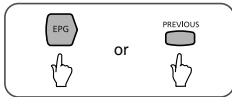


To clear the EPG:

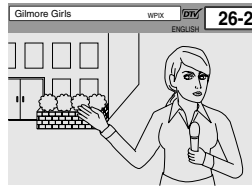
Press EPG or PREVIOUS.

The previous program appears.

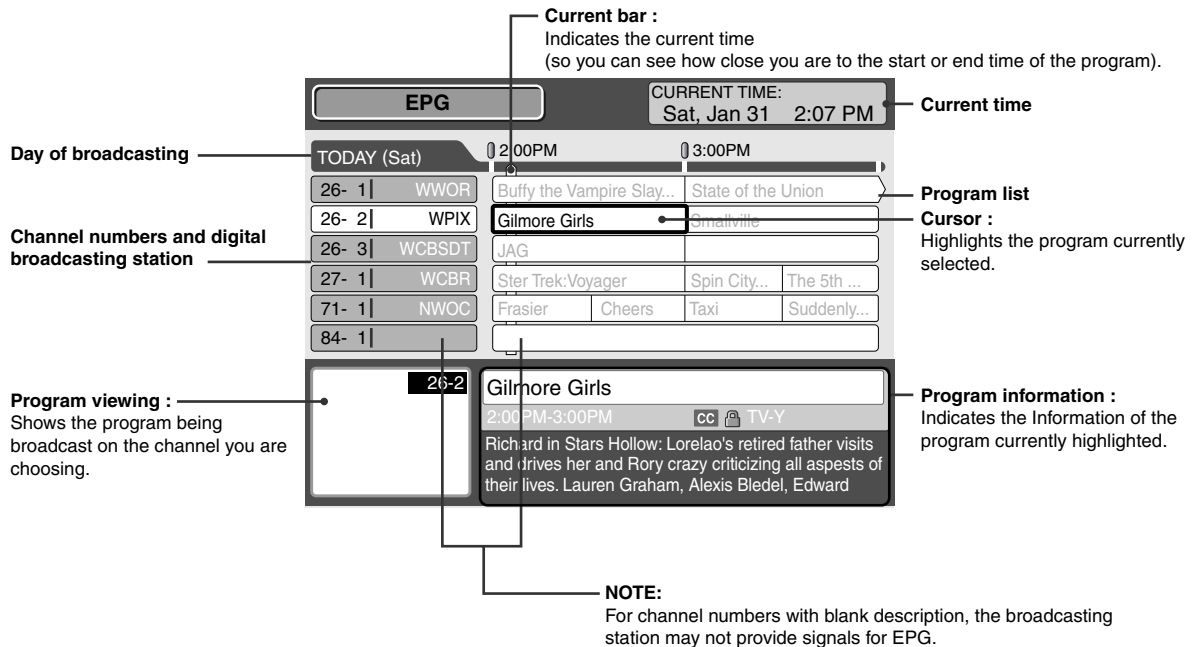
Remote:



Screen:



Components of Electronic Program Guide (EPG)



Information icons



LOCK:

Indicates that the current program is blocked according to your V-CHIP setting.



CC (Closed Caption):

Indicates that the program being broadcast is available with closed captioning.

Setup menu options



includes:

- **ADD / DELETE:**
Add or delete channels in the channel map.
- **ANTENNA:**
Verify and adjust the signal strength of each channel to get a clearer picture.
- **AUTOSCAN:**
Get available digital channels automatically into the channel map by completing AUTOSCAN or EXTENDED SCAN.



includes:

- **SCREEN RATIO:**
Fit the screen ratio to your TV screen.
- **DISPLAY MODE:**
Choose the display mode you prefer.



includes:

- **Daylight Saving Time (DST):**
Set the Daylight Savings Time (DST).
- **TIME ZONE:**
Set the time zone.
- **MANUAL:**
Set the clock manually.
- **AUTO:**
Adjust the clock automatically using the channel clock data included in the signal from digital broadcast sources.



includes:

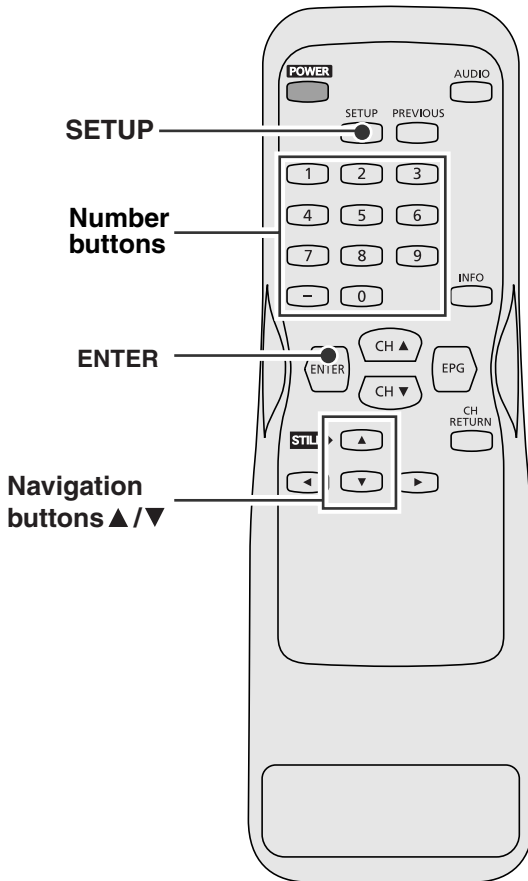
- **V-CHIP/ CC:**
Make some settings for V-CHIP and closed caption including your own password.
- **MENU LANGUAGE:**
Choose English, French or Spanish for the screen menu.
- **SOUND EFFECTS:**
Choose whether to have sounds on or off when using on screen menus.

Adding/Deleting channels

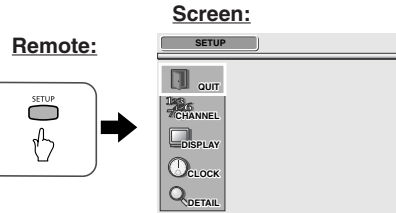
Add or delete desired channels in the channel map.

NOTE :

Once you add (or delete) channels in a channel map, you can select (or skip) the channels in order using CH ▲ / ▼ buttons.

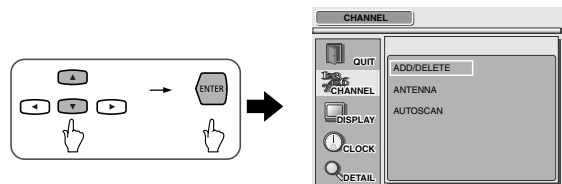


1 Press SETUP to display SETUP menu.



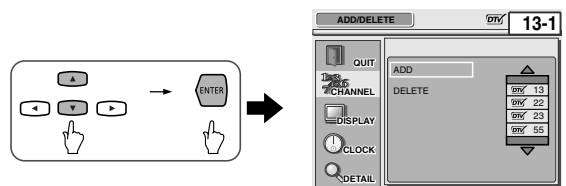
2 Select CHANNEL using navigation buttons ▲ / ▼, then press ENTER.

- CHANNEL menu appears.



3 Select ADD/ DELETE using navigation buttons ▲ / ▼, then press ENTER.

- ADD/ DELETE menu appears.

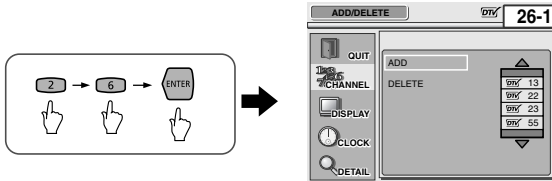


Advanced Operation

Adding channels

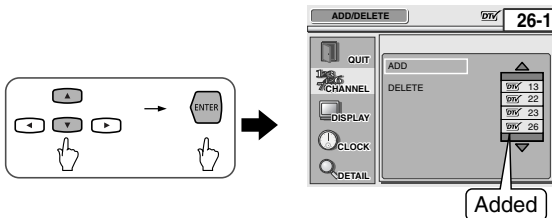
E.g., deleting channel 26.

4 Enter channel number 26.



5 Select ADD using navigation buttons ▲ / ▼, then press ENTER.

- 26 is added to the channel map.



NOTE:

Channels can be added only with main channel numbers. When the channel has sub-channels, however, you can select the sub-channels with CH ▲ / ▼ buttons.

To continue adding:

Repeat steps [4] and [5].

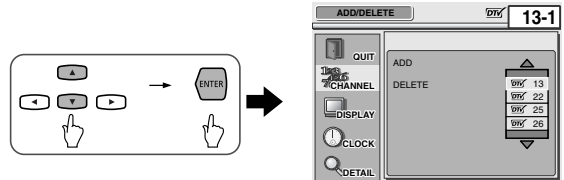
6 Press SETUP to exit SETUP menu.

Deleting channels

E.g., deleting channel 26.

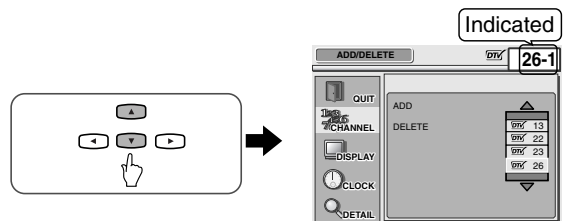
4 Select DELETE using navigation buttons ▲ / ▼, then press ENTER.

- The cursor moves to the channel map.



5 Select the digital channel number 26 using navigation buttons ▲ / ▼.

- 26-1 is indicated in the box at the top of the screen.

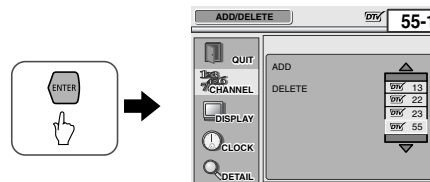


TIP:

To add a channel number you deleted, add it by following the steps in the ADD menu or renew the whole channel map with the AUTOSCAN menu.

6 Press ENTER when the cursor is on the digital channel 26.

- The digital channel number 26 will be deleted.



To continue deleting:

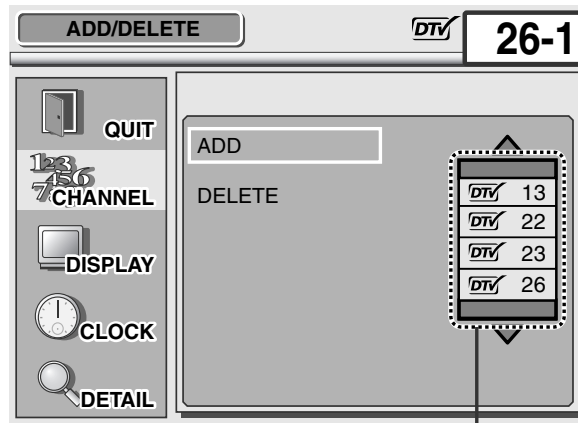
Repeat steps [5] and [6].

NOTE:

▲ / ▼ : Indicates that there are more channels above or below.

7 Press SETUP to exit SETUP menu.

Information on channel map



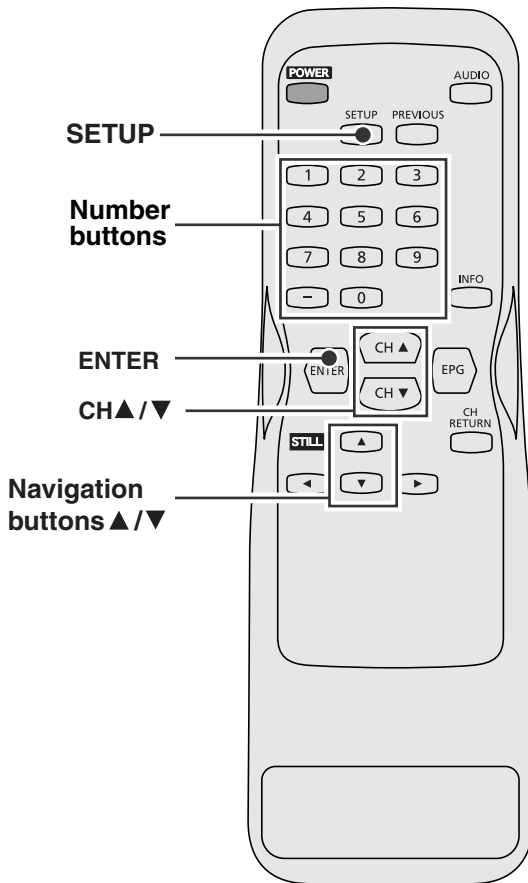
Channel map

DTV : Indicates a digital channel.

Adjusting antenna

ANTENNA

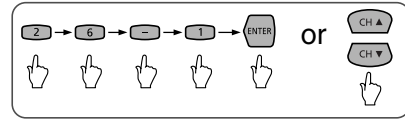
You can verify the signal strength of each channel to get a clearer picture.



E.g., to adjust channel 26-1.

- 1 Select channel 26-1 to adjust using number buttons or CH ▲/▼ buttons.**

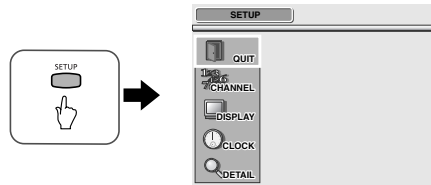
Remote:



Screen:

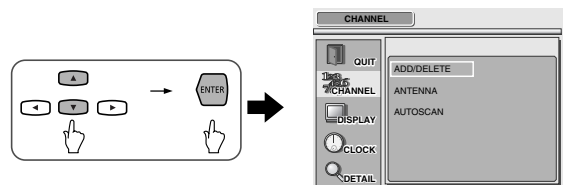


- 2 Press SETUP to display SETUP menu.**



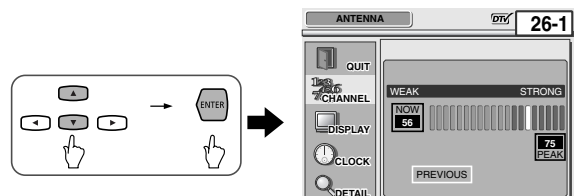
- 3 Select CHANNEL using navigation buttons ▲/▼, then press ENTER.**

- CHANNEL menu appears.



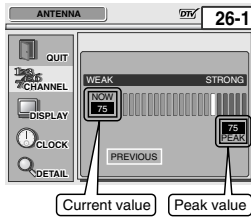
- 4 Select ANTENNA using navigation buttons ▲/▼, then press ENTER.**

- ANTENNA menu appears, then STB starts receiving the signal strength of the channel.



5 Adjust the Smart Antenna's height (or direction if you are using an ordinary antenna) to get the best reception.

- A status bar stretches to the right according to the signal strength.
- The value will be indicated on the left of the status bar so that you can adjust the antenna.



NOTE :

Once you have correctly installed the Smart Antenna, you do not have to adjust its height or position again.

To adjust other channels:

Select the channel with CH ▲ / ▼ buttons, then adjust it.

To cancel during adjustment:

Press SETUP or ENTER.

6 Press SETUP to exit SETUP menu.

Receiving channels

AUTOSCAN

STB can get available digital channels automatically.

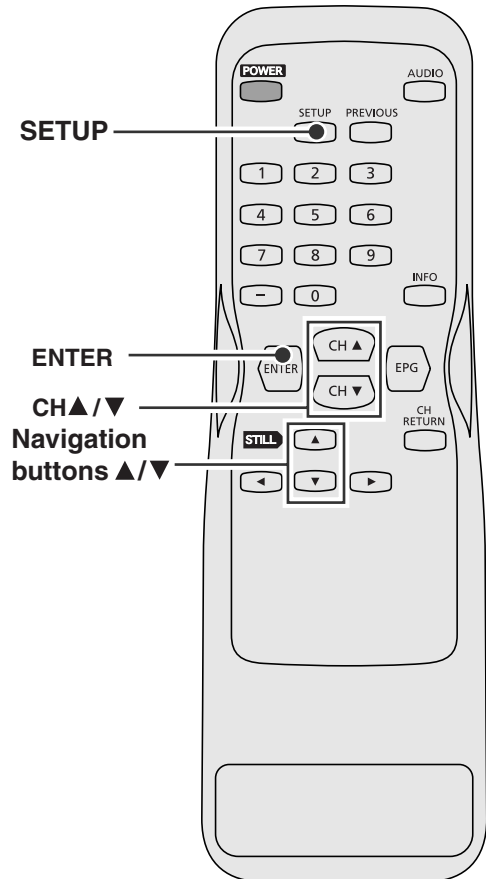
AUTOSCAN receives available digital channels and stores them in a channel map. These channels can then be selected using CH ▲ / ▼ buttons.

CAUTION:

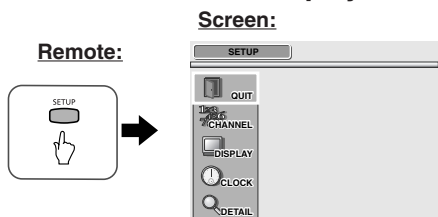
If AUTOSCAN is skipped, digital channels may not be received correctly.

NOTE:

To get many more digital channels from your Smart Antenna, do the EXTENDED SCAN. This enables you to receive many more digital channels than AUTOSCAN. It takes about 20 minutes.

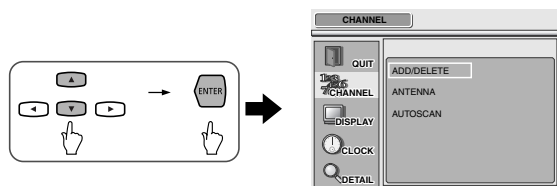


1 Press SETUP to display SETUP menu.



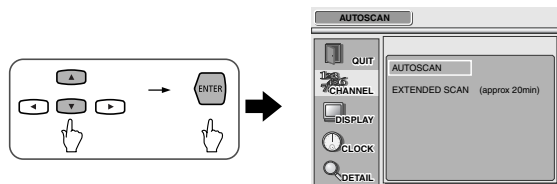
2 Select CHANNEL using navigation buttons ▲/▼, then press ENTER.

- CHANNEL menu appears.



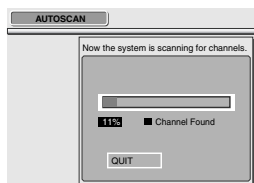
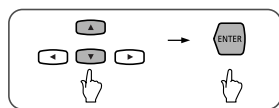
3 Select AUTOSCAN using navigation buttons ▲/▼, then press ENTER.

- AUTOSCAN menu appears.

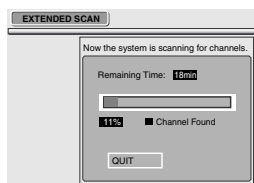


4 Select AUTOSCAN or EXTENDED SCAN using navigation buttons ▲/▼, then press ENTER.

- The Scanning screen appears while the STB scans for available digital channels and adds them to the channel map.



Autoscan
Takes about 3 minutes.



Extended scan
Takes about 20 minutes.

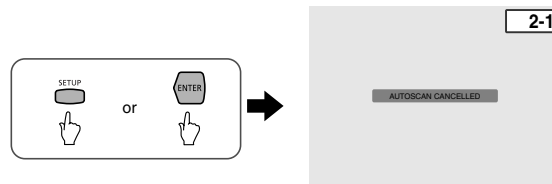
TIP:

When you want to completely refresh the channel map, use ADD/DELETE to delete all the channels, then do the AUTOSCAN again. See "Deleting channels" on page 36 for details.

To cancel during scanning:

Press SETUP or ENTER.

- AUTOSCAN CANCELLED appears on the screen.

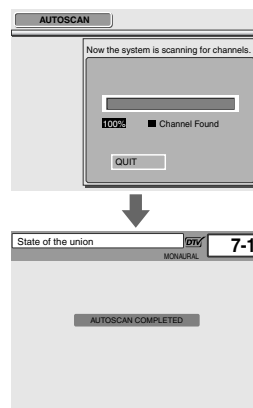


NOTE:

If cancelled, some channels not yet scanned may not be received. We recommend completing AUTOSCAN or EXTENDED SCAN.

5 Scan is completed.

- SETUP menu goes off automatically and STB starts receiving broadcasts.



Press CH ▲/▼ buttons to verify whether STB is receiving channels being broadcast.

When NO SIGNAL appears on the screen:

Verify the antenna connection, then scan again. The STB tunes in channel 2-1 and NO SIGNAL appears if the STB could not receive any channels.

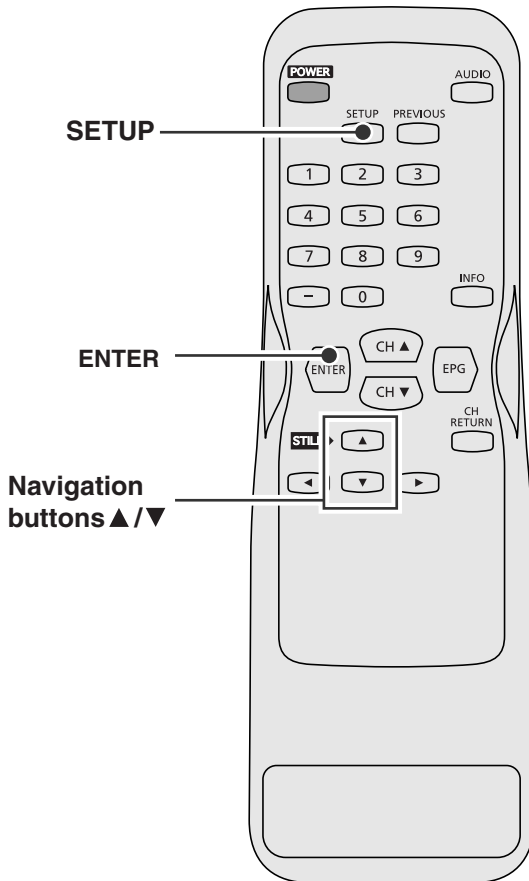


Selecting screen formats (Screen ratio and Display mode)

STB allows you to select a screen ratio and a display mode (aspect ratio) to match the formats of the program being broadcast on your TV screen. You can also change to aspect ratios you prefer to watch.

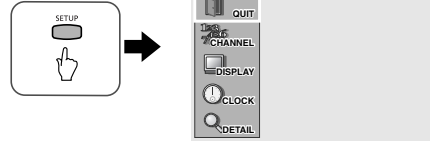
SCREEN RATIO

There are two screen ratios used in manufacturing TVs. These are standard TV format (4:3) and widescreen format (16:9). Aspect ratio is the ratio of the screen width to height.



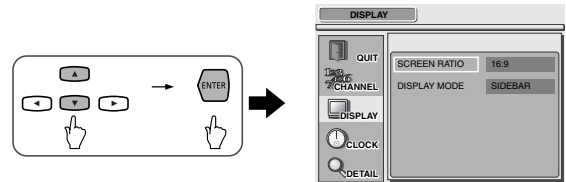
1 Press SETUP to display SETUP menu.

Remote:



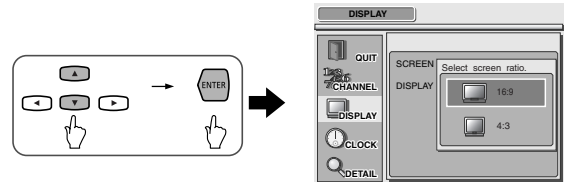
2 Select DISPLAY using navigation buttons ▲/▼, then press ENTER.

- DISPLAY menu appears.



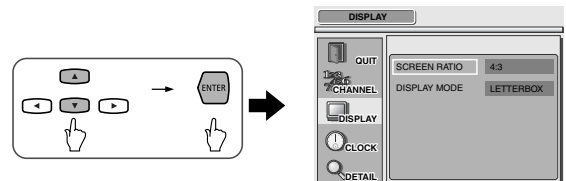
3 Select SCREEN RATIO using navigation buttons ▲/▼, then press ENTER.

- Screen ratio options appear.



4 Select the desired screen ratio using navigation buttons ▲/▼, then press ENTER.

- The screen ratio is set.



5 Press SETUP to exit SETUP menu.

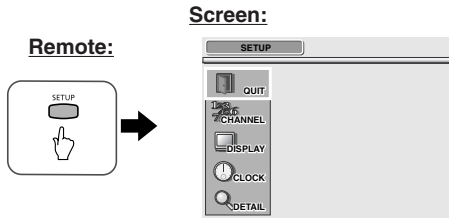
NOTE:

Select the screen ratio to fit your TV screen. See your television's manual for details.

Advanced Operation

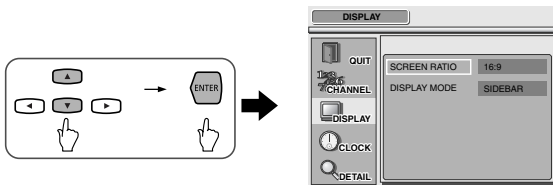
DISPLAY MODE

1 Press SETUP to display SETUP menu.



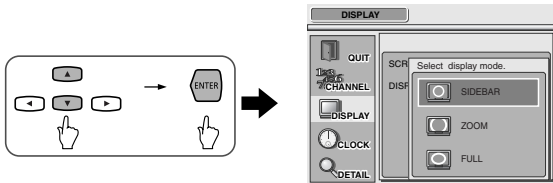
2 Select DISPLAY using navigation buttons ▲/▼, then press ENTER.

- DISPLAY menu appears.



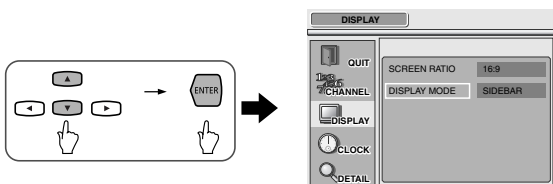
3 Select DISPLAY MODE using navigation buttons ▲/▼, then press ENTER.

- Display mode options appear.



4 Select the desired display mode using navigation buttons ▲/▼, then press ENTER.

- The display mode is set.



NOTE:

Choose the display mode as you prefer.
See “INFORMATION on Screen Ratio and Display Mode” on page 43 for further information.

5 Press SETUP to exit SETUP menu.

CAUTION:

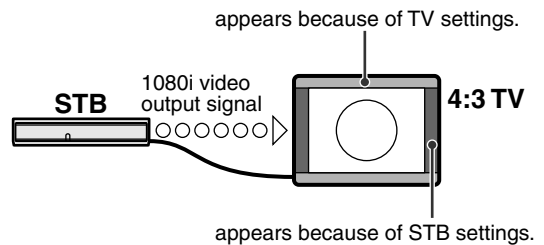
If the TV is left in LETTERBOX or SIDEBAR for a long period of time, the still image may cause a burn-in effect, damaging the TV screen.

Important information about screen ratio and display mode

Depending on the type of TV you have, you may encounter one of the following problems.

4:3 TV

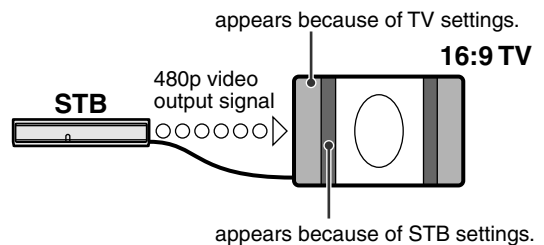
If you have a 4:3 aspect HDTV, bars may appear at the top and bottom of the picture when you input 1080i signals. If you have set the STB to SCREEN RATIO 16:9 and SIDEBAR, the screen may appear as shown here.



We recommend setting the STB's screen ratio to 4:3 and the display mode to suit your preference. Alternatively, set the resolution selection switch on the rear panel to “480p”. See your TV owner's manual for details.

16:9 TV

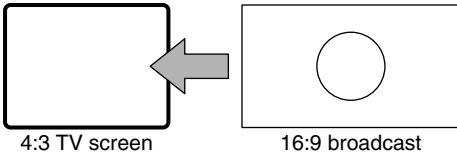
A double set of sidebars may appear on the left and right of the picture, squeezing it into the center of the screen. This can occur if you have set the resolution selection switch on the rear panel to “480p”, because the television may recognize the signal as 4:3, regardless of the screen ratio setting you have made on the STB.



If your television can handle 1080i or 720p signals, set the resolution selection switch on the rear panel to the resolution for your television. If it cannot handle either of these, then change the display mode on your television.

INFORMATION on Screen Ratio and Display Mode

For standard 4:3 TVs displaying widescreen 16:9 broadcasts, your choices are:



Letter Box

Displays the entire picture image while fitting the picture to the screen by applying gray bars to the top and bottom of the screen.
No information will be lost.



Zoom

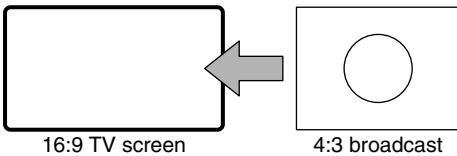
Expands the picture image to fill the screen while cropping some images on the left and right.
Picture information on the left and right side will be lost.



Full

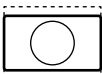
Displays the entire picture image while fitting the picture to the screen by stretching the image vertically, so that it fills the screen.
No information will be lost, but there may be a slight distortion of the picture.

For widescreen 16:9 TVs displaying standard 4:3 broadcasts, your choices are:



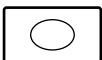
Sidebar

Displays the entire picture centering the image by applying gray bars to the left and right sides of the screen.
No information will be lost.



Zoom

Expands the picture image to fill the screen while cropping some images on the top and bottom.
Picture information on the top and bottom will be lost.



Full

Displays the entire picture image while fitting the picture to the screen by stretching the image horizontally, so that it fills the screen.
No information will be lost, but there may be a slight distortion of the picture.

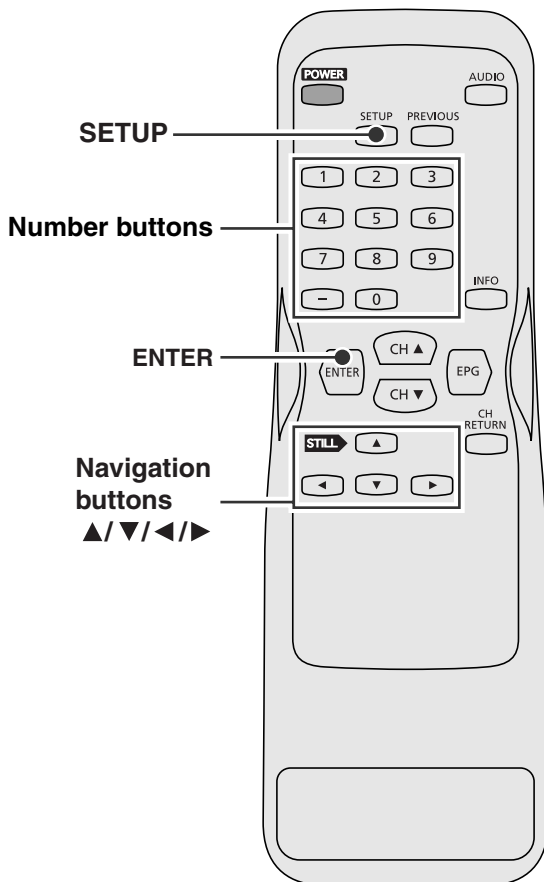
Setting the clock

To get the EPG (Electronic Program Guide) and Channel banner, you will need to set the CLOCK correctly.

NOTE:

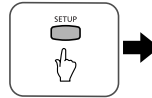
The clock function is necessary to display the EPG so there may be 10 seconds-time lag a day at the maximum. Therefore we recommend setting AUTO to ON.

Set Daylight Saving Time (DST) and TIME ZONE before setting the clock. These will be influential when setting the current time.

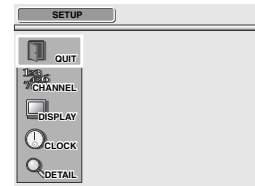


1 Press SETUP to display SETUP menu.

Remote:

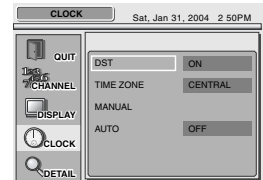
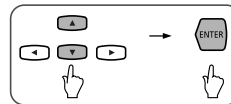


Screen:



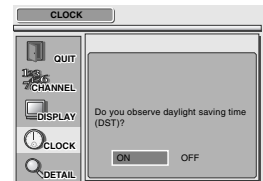
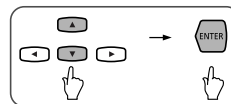
2 Select CLOCK using navigation buttons ▲/▼, then press ENTER.

- CLOCK menu appears.



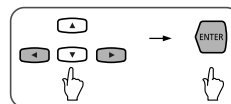
3 Select DST using navigation buttons ▲/▼, then press ENTER.

- Daylight saving time setting menu appears.



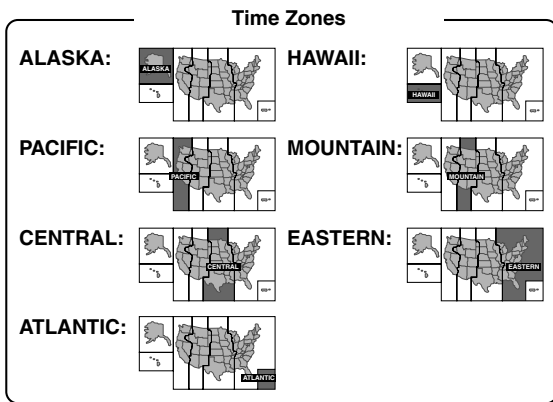
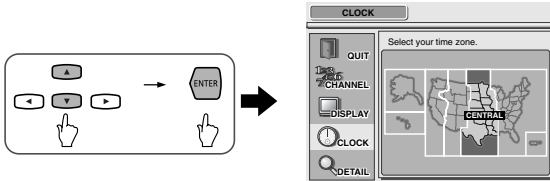
4 Select ON or OFF using navigation buttons ◀/▶, then press ENTER.

- Daylight savings time is set, then CLOCK menu appears.



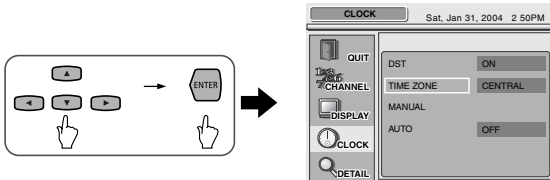
5 Select TIME ZONE using navigation buttons ▲/▼, then press ENTER.

- TIME ZONE setting menu appears.



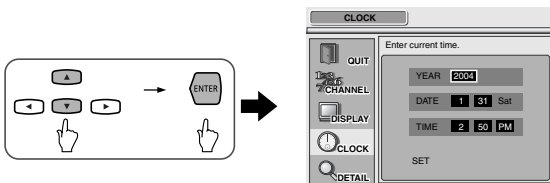
6 Select your time zone using navigation buttons ▲/▼/◀/▶, then press ENTER.

- The TIME ZONE is set, then CLOCK menu appears.



7 Select MANUAL using navigation buttons ▲/▼, then press ENTER.

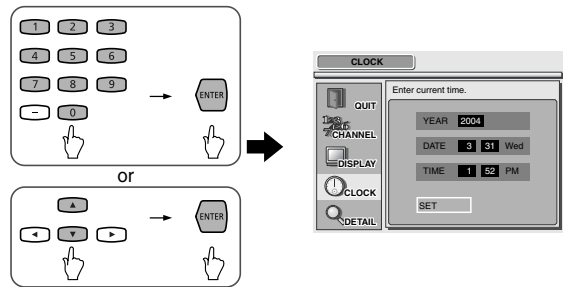
- The current time setting menu appears.



8 Enter YEAR, DATE and TIME using navigation buttons ▲/▼/◀/▶ or number buttons.

- Press ENTER to set each value and the cursor moves to the next.

- To go back and forth, press navigation buttons ◀/▶.



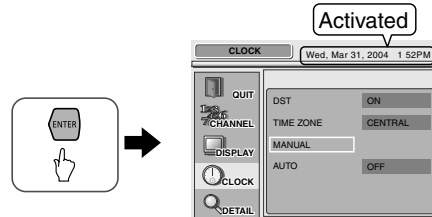
After you enter all information, the cursor moves to SET.

TIP:

To enter the YEAR, enter the last 2 digits (e.g., enter "04" using number buttons; 2004 will be shown.)

9 Press ENTER when the cursor is on SET.

- Your settings are activated.

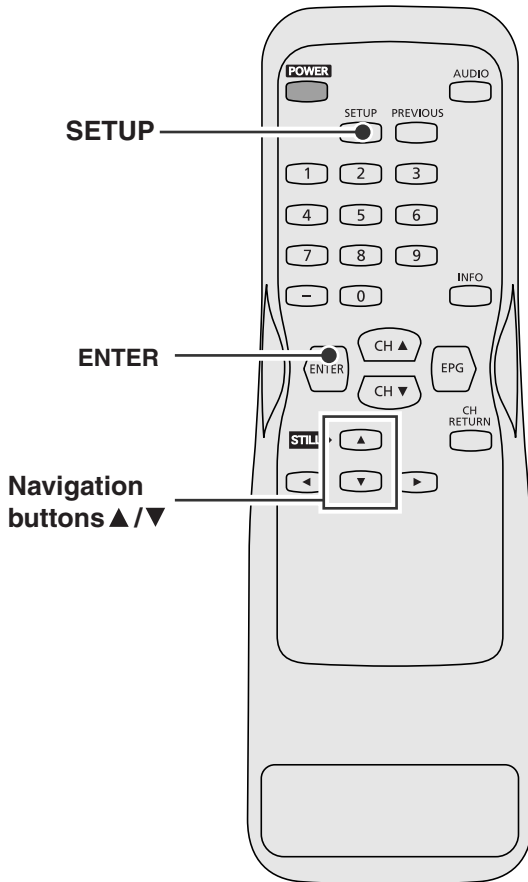


10 Press SETUP to exit SETUP menu.

Adjusting the clock automatically

STB can adjust the clock automatically using clock data included in digital broadcasts.

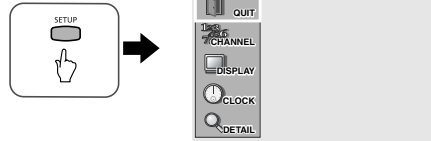
In this menu, STB searches for channels with clock data, then adjusts the clock using the channel you select.



1 Press **SETUP** to display **SETUP** menu.

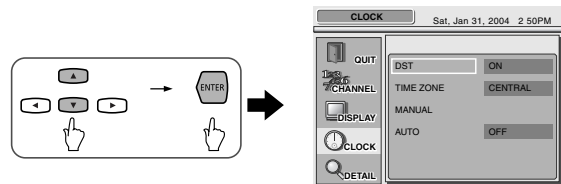
Screen:

Remote:



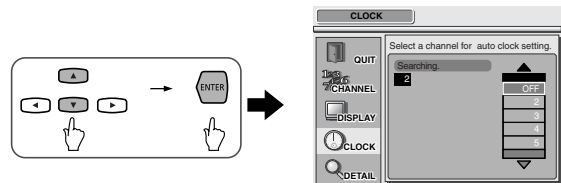
2 Select **CLOCK** using navigation buttons ▲/▼, then press **ENTER**.

- CLOCK menu appears.



3 Select **AUTO** using navigation buttons ▲/▼, then press **ENTER**.

- Auto clock setting menu appears, then STB starts searching for channels with clock data.



When not using the auto-clock setting:

Select OFF from the channel-map, then press ENTER. In this case, continue with step [7].

- OFF is at the top of the channel map. Keep pressing navigation button ▲ to find it.

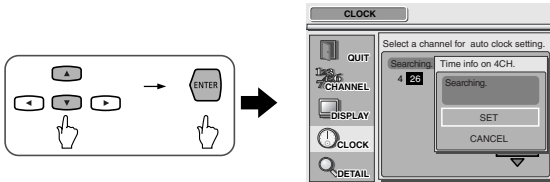
4 After scanning

- Channels with clock data are listed and turn black in the channel map.
- “Channel search completed.” appears when the search is completed.
- “No channels found.” appears if the STB could not find any channels with clock data.



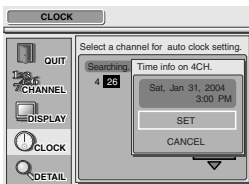
5 Use the navigation buttons ▲ / ▼ to select the channel you want to gather clock data from in the channel map, then press ENTER.

- The time info window appears and the STB starts searching for the time info on the channel you selected.



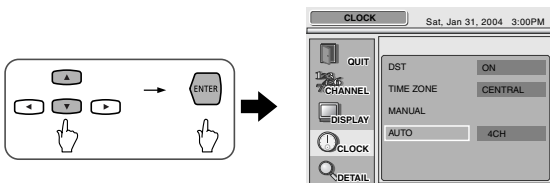
TIP:

- You can select a channel that has been found even if the STB is still searching.
- When the STB has finished gathering the time information, the current date and time according to the channel appears.
- “No time info.” appears if the STB could not find time information from the channel you selected.



6 Use the navigation buttons ▲ / ▼ to select SET and press ENTER.

- The CLOCK menu appears.
- The selected channel is set, then the clock is activated.
- If the time shown is incorrect or the time isn't shown, select CANCEL, press ENTER. Then, repeat steps [5] and [6] using another channel.



7 Press SETUP to exit SETUP menu.

V-CHIP options

Setting a new password

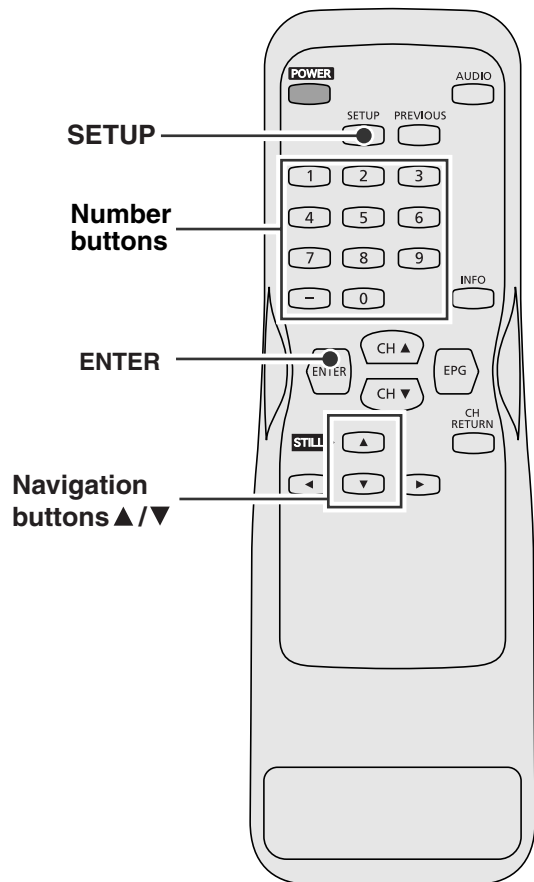
You will need to change the 4-digit password to protect your V-CHIP/CC setting. “0000” is the default password.

NOTE:

If the power supply is stopped due to a power failure or unplugging AC power cord for approx. 5 seconds, the password goes back to “0000.”

DO NOT forget your password.

You need it to set the V-CHIP/CC.

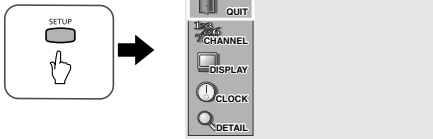


Advanced Operation

1 Press SETUP to display SETUP menu.

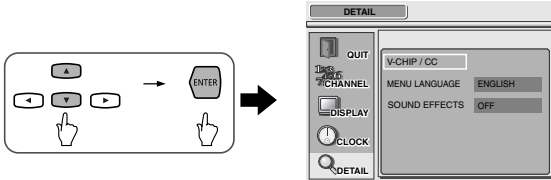
Screen:

Remote:



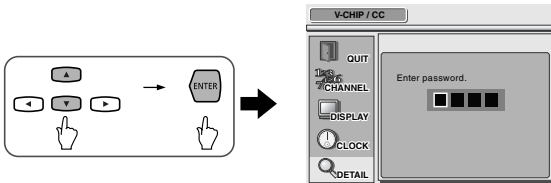
2 Select DETAIL using navigation button ▲/▼, then press ENTER.

- DETAIL menu appears.



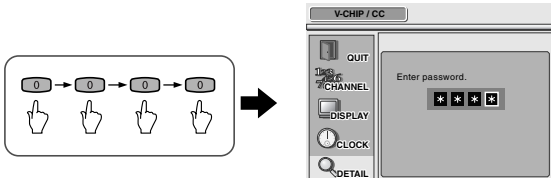
3 Select V-CHIP/CC using navigation button ▲/▼, then press ENTER.

- V-CHIP/CC password window appears.

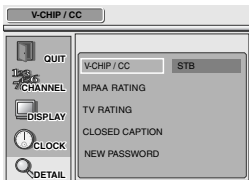


4 Enter the default password "0000."

- " * " appears for each digit.

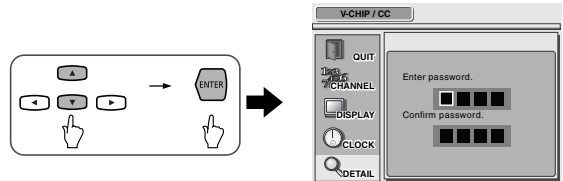


After you enter the default password, V-CHIP/CC menu appears.

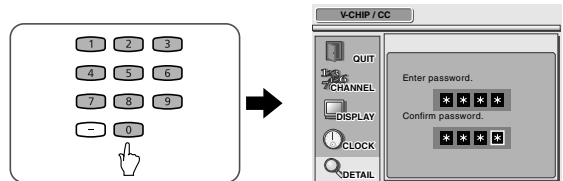


5 Select NEW PASSWORD using navigation buttons ▲/▼, then press ENTER.

- Password setting menu appears.

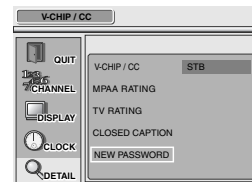


6 Enter a new 4-digit password in the upper space, then enter again in the lower space to confirm.



7 V-CHIP/CC menu appears.

- Your new password is stored.



8 Press SETUP to exit SETUP menu.

Setting for V-CHIP/CC

V-CHIP/CC

In this menu, you will make some important settings for the viewing programs you select.

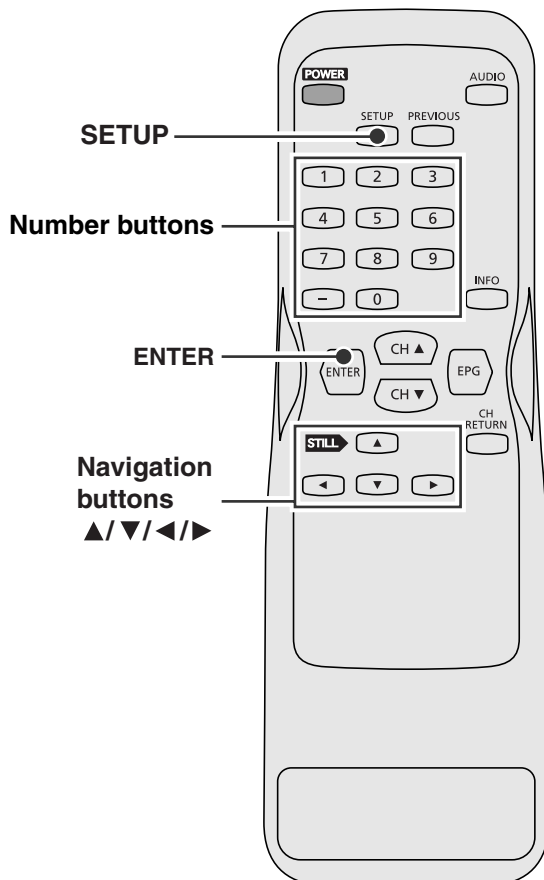
First, set your 4-digit password for your V-CHIP, then proceed with the settings. Refer to “Setting a new password” on page 47.

V-CHIP technology blocks movies and television programs according to their ratings.

When V-CHIP and Closed Caption (CC) systems are built into your TV, choose STB or TV as your standard to transmit V-CHIP/CC information.

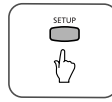
When V-CHIP/CC is set to STB, the settings you make here are valid. Set the rating level on the STB. When set to TV, the settings are not valid. Set the rating level on the TV.

STB is the default.

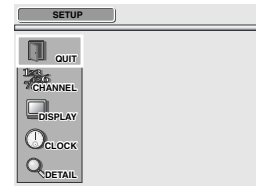


1 Press SETUP to display SETUP menu.

Remote:

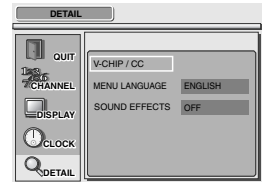
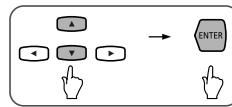


Screen:



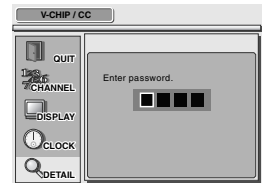
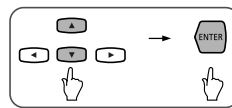
2 Select DETAIL using navigation buttons ▲/▼, then press ENTER.

- DETAIL menu appears.



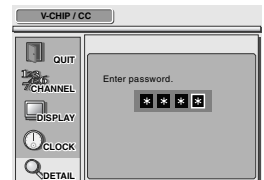
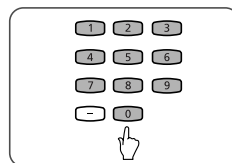
3 Select V-CHIP/CC using navigation buttons ▲/▼, then press ENTER.

- V-CHIP/CC password window appears.

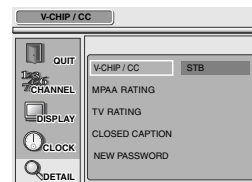


4 Enter your 4-digit password.

- “ * ” appears for each digit.

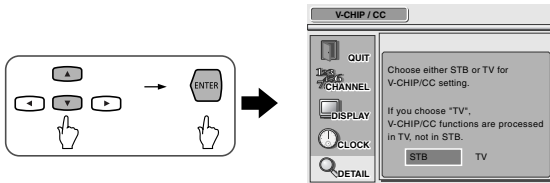


After you enter the correct password, V-CHIP/CC menu appears.

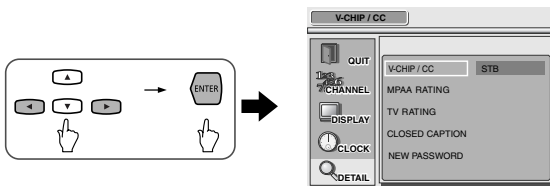


5 Select V-CHIP/CC using navigation buttons ▲/▼, then press ENTER.

- V-CHIP/CC setting menu appears.



6 Select STB or TV using navigation buttons ◀/▶, then press ENTER.



NOTE:

To set V-CHIP/CC settings, choose STB.

If you choose “STB” to control V-CHIP Ratings:

- The STB V-CHIP/CC settings are effective.
- Make the V-CHIP/CC settings with STB.
- You can watch programs according to the STB V-CHIP/CC settings.

If you choose “TV” to control V-CHIP Ratings:

- The STB V-CHIP/CC settings are not effective.
- You can watch programs according to the TV V-CHIP/CC settings.
- Make the V-CHIP/CC settings with the TV. For TV settings, refer to your television’s manual.

7 Press SETUP to exit SETUP menu.

V-CHIP is built into TVs and other video devices to work in conjunction with the TV Parental Guidelines. It electronically reads television-programming ratings and allows parents to block programs they believe are inappropriate for their children.

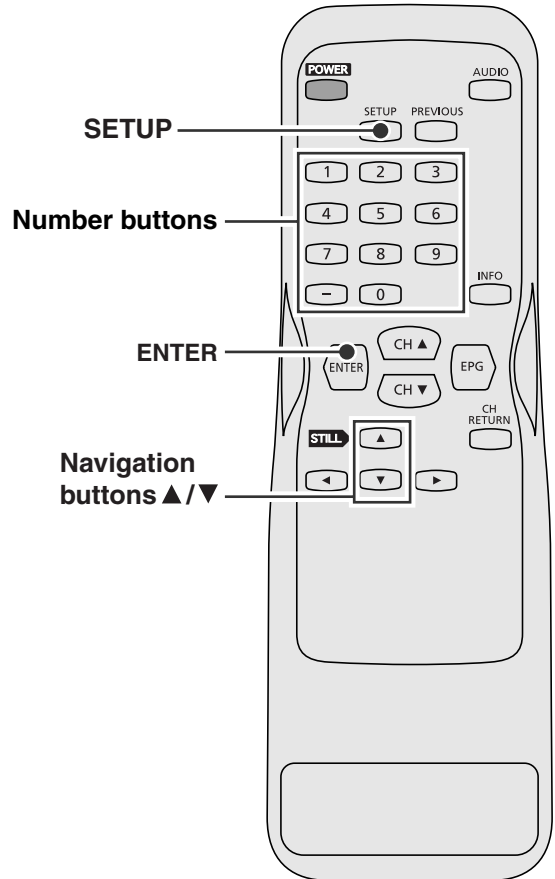
There are two rating categories in use, TV ratings (pages 53-55) for TV programs and MPAA ratings (pages 51-52) for theatrical movies being broadcast.

Setting MPAA rating

MPAA RATING

The MPAA (Motion Picture Association of America) uses the standard movie ratings.

Age Label	Description
NR	Not Rated by MPAA
G	General Audience
PG	Parental Guidance Suggested. Some material may not be suitable for children.
PG-13	Parents Strongly Cautioned. Some material may be inappropriate for children under 13.
R	Restricted. Under 17 requires accompanying parent or guardian.
NC-17	No one 17 and under admitted. Some material is intended to be viewed by adults only.
X	No one 17 and under admitted. Some material is explicitly sexual and is intended to be viewed by adults only.

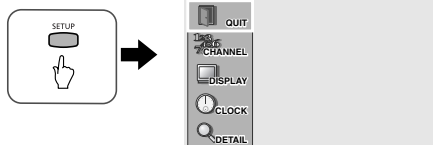


Advanced Operation

1 Press SETUP to display SETUP menu.

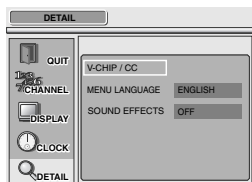
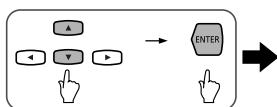
Screen:

Remote:



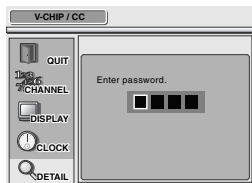
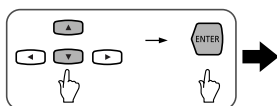
2 Select DETAIL using navigation buttons ▲/▼, then press ENTER.

- DETAIL menu appears.



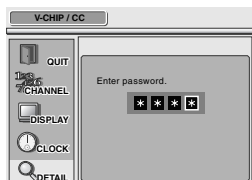
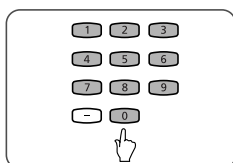
3 Select V-CHIP/CC using navigation buttons ▲/▼, then press ENTER.

- V-CHIP/CC password window appears.

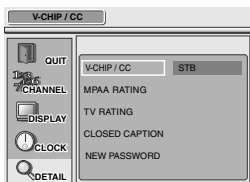


4 Enter your 4-digit password.

- “ * ” appears for each digit.

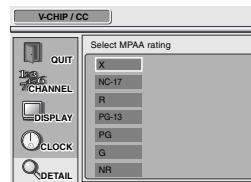
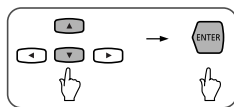


After you enter the correct password, V-CHIP/CC menu appears.



5 Select MPAA RATING using navigation buttons ▲/▼, then press ENTER.

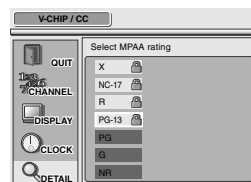
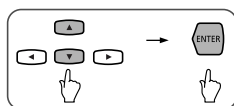
- MPAA rating setting menu appears.



6 Select your desired rating level using navigation buttons ▲/▼, then press ENTER.

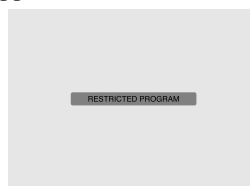
E.g., to block all PG-13 movies:

- Lock indicators are added to programs rated PG-13 and above.



NOTE:

All movie programs rated PG-13 and above are blocked. When STB receives these programs, it blocks video and audio output and RESTRICTED PROGRAM appears on the screen.



TIP:

Press ENTER to unblock a previously blocked rating so you can select it.

7 Press SETUP to exit SETUP menu.

Setting TV rating

TV RATING

(TV Parental Guidelines)

TV rating allows parents to block out programs they don't want their children to see.

TV rating consists of age labels and content labels.

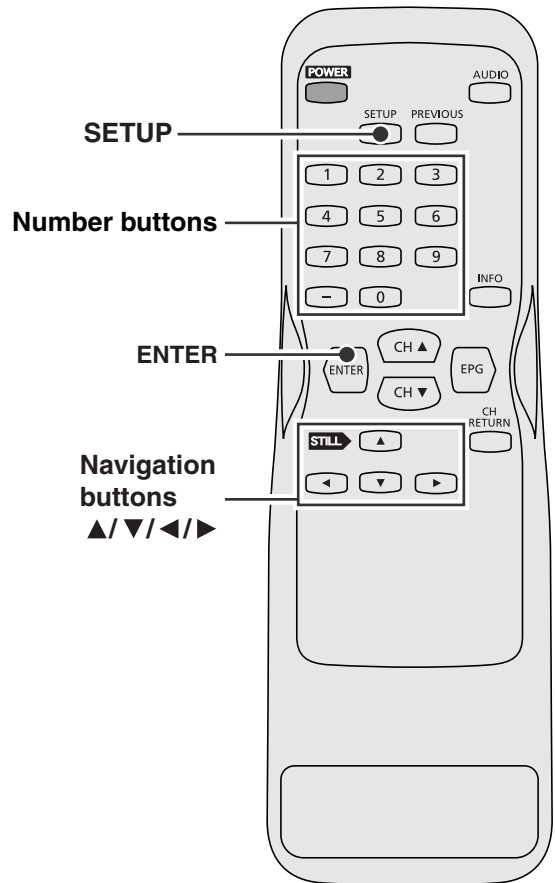
The following are the descriptions for each label:

Age Label	Description
TV-MA	Mature Audience Only : Specifically designed to be viewed by adults and therefore may be unsuitable for children under 17. Possible content label : L, S, V
TV-14	Parents Strongly Cautioned: Contains some material that many parents would find unsuitable for children under 14 years of age. Possible content label : D, L, S, V
TV-PG	Parental Guidance Suggested : Contains material that parents may find suitable for younger children. Possible content label : D, L, S, V
TV-G	General Audience : Most parents would find this program appropriate for all ages.
TV-Y7	Directed to Older Children : Designed for children age 7 and above. Possible content label : FV
TV-Y	All Children : Designed to be appropriate for all children.

Content Label	Description
D	suggestive dialogue
L	coarse language
S	sexual situations
V	violence
FV	fantasy violence

NOTE:

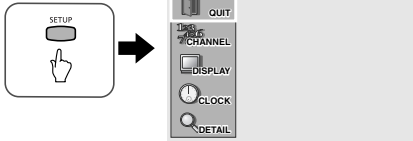
When you block a particular rating or content label, all categories above that are also blocked.



1 Press SETUP to display SETUP menu.

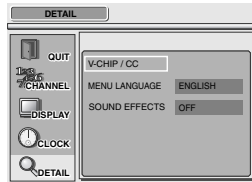
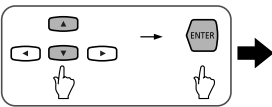
Screen:

Remote:



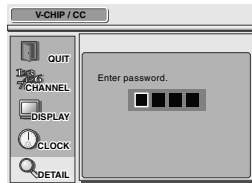
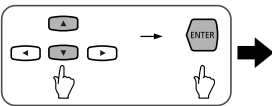
2 Select DETAIL using navigation buttons ▲/▼, then press ENTER.

- DETAIL menu appears.



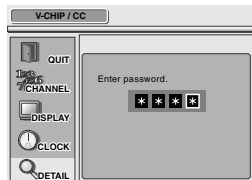
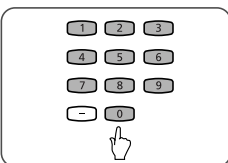
3 Select V-CHIP/CC using navigation buttons ▲/▼, then press ENTER.

- V-CHIP/CC password window appears.

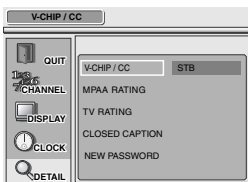


4 Enter your 4-digit password.

- " * " appears for each digit.

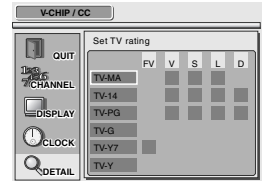
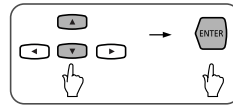


After you enter the correct password, V-CHIP/CC menu appears.

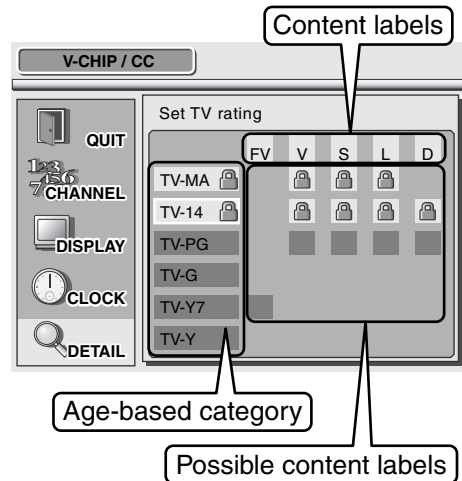


5 Select TV RATING using navigation buttons ▲/▼, then press ENTER.

- TV rating setting menu appears.



INFORMATION on TV ratings

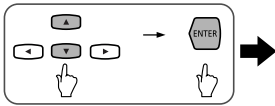


To set age-based ratings:

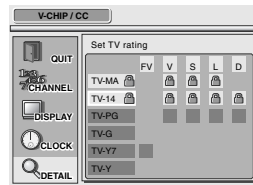
E.g., to block all TV-14 programs

1. Select TV-14 using navigation buttons ▲ / ▼, then press ENTER.
- Lock indicators are added to TV-14 and above.

Remote:



Screen:



NOTE:

All TV-14 and higher programs are blocked, along with all the labels of their possible contents. When STB receives these programs, it blocks video and audio output then RESTRICTED PROGRAM appears on the screen.

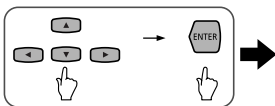
2. Press SETUP to exit SETUP menu.

To set content-based ratings:

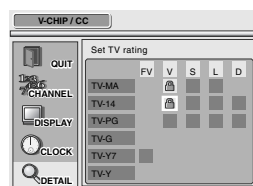
E.g., to block only TV-14 programs that contain higher levels of violence

1. Select TV-14-V using navigation buttons ▲ / ▼ / ◀ / ▶, then press ENTER.
- Lock indicators are added to TV-14-V and above.

Remote:



Screen:



NOTE:

All TV-14-V and higher programs are blocked. When STB receives these programs, it blocks video and audio output then RESTRICTED PROGRAM appears on the screen.

2. Press SETUP to exit SETUP menu.

Closed caption options

CLOSED CAPTION

Closed captions are text versions of the audio content or may provide other information while you are watching a program. Actual content is decided by the broadcaster.

This menu contains the following items.

CLOSED CAPTION:

OFF: Select if you do not want closed captions. This is the default.

CC1 to CC4 and TEXT 1 to 4: Select if you want closed captions. Select one of these before changing any other item in the CLOSED CAPTION menu.

DTV CC:

Apart from closed captions, DTV has its own closed captions called DTV CC. Use this menu to change the settings for DTV CC.

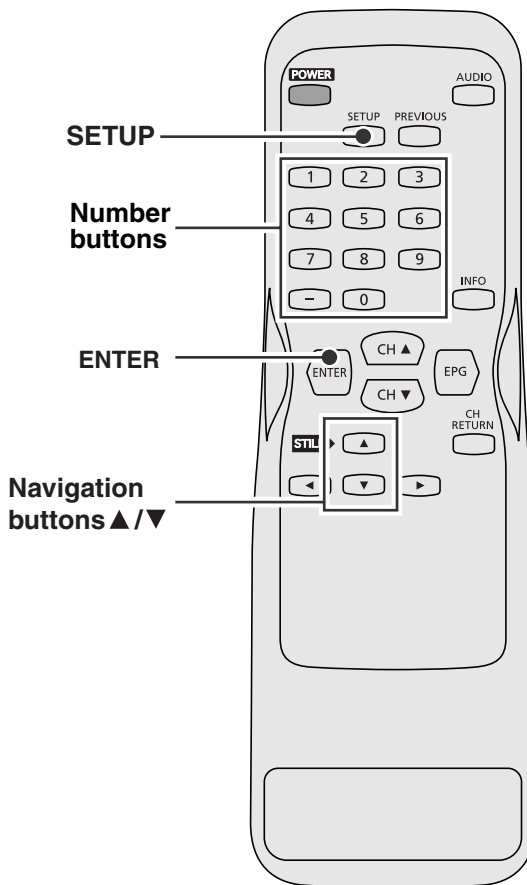
OFF: Select if you do not want DTV CC. This is the default.

SERVICE 1 to SERVICE 6: Select one of these before changing any other item in the CLOSED CAPTION menu. Choose SERVICE 1 under normal circumstances.

CC STYLE:

ORIGINAL: Closed captions are displayed using the broadcast's original setting.

MANUAL: Closed captions are displayed using your manual setting. Change the font, color, edge and opacity of the closed captions.



Information on closed captions

CC1 and TEXT1:

are the primary caption and text services. The captioning or text is displayed in the same language as the program's dialog. (up to 4 lines of script on the screen, where it does not obstruct relevant parts of the picture)

CC3 and TEXT3:

serve as the preferred data channels. The captioning or text is often a secondary language translation, simplified English or displayed at a slower rate.

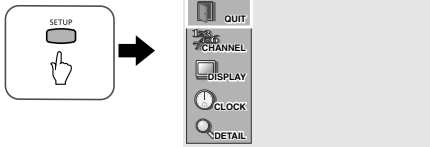
CC2, CC4, TEXT2 and TEXT4:

are rarely available and broadcasters use them only in special conditions, such as when CC1 and CC3 are not available or TEXT1 and TEXT3 are not available.

1 Press SETUP to display SETUP menu.

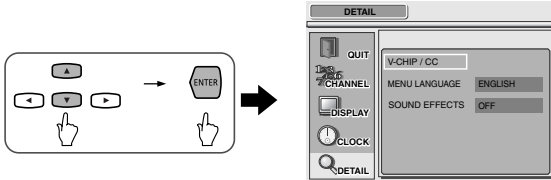
Screen:

Remote:



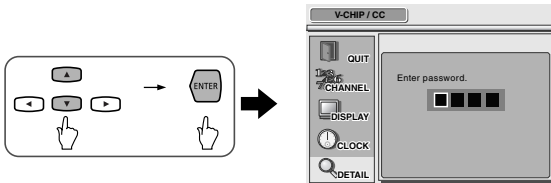
2 Select DETAIL using navigation buttons ▲ / ▼, then press ENTER.

- DETAIL menu appears.



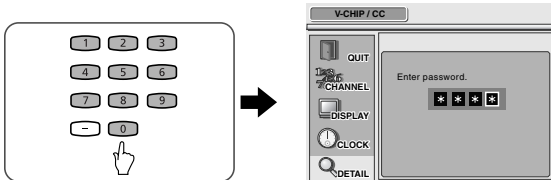
3 Select V-CHIP/CC using navigation buttons ▲ / ▼, then press ENTER.

- V-CHIP/CC password window appears.

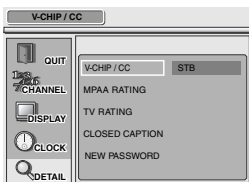


4 Enter your 4-digit password.

- “ * ” appears for each digit.

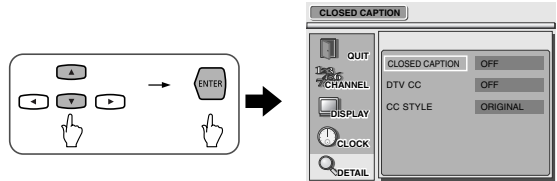


After you enter the correct password, V-CHIP/CC menu appears.



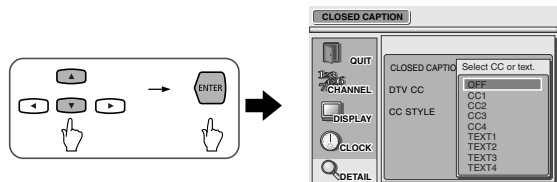
5 Select CLOSED CAPTION using navigation buttons ▲ / ▼, then press ENTER.

- CLOSED CAPTION menu appears.



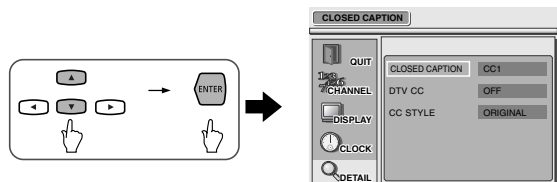
6 Select CLOSED CAPTION using navigation buttons ▲ / ▼, then press ENTER.

- The CLOSED CAPTION selection screen appears.



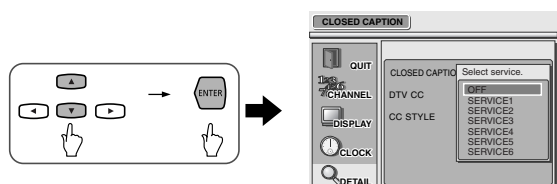
7 Select the setting you want for closed captions using navigation buttons ▲ / ▼, then press ENTER.

- CLOSED CAPTION menu appears.
- Your selection is activated.



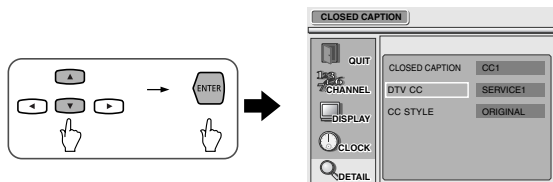
8 Select DTV CC using navigation buttons ▲ / ▼, then press ENTER.

- The DTV CC selection screen appears.



9 Select the setting you want for DTV CC using navigation buttons ▲ / ▼, then press ENTER.

- CLOSED CAPTION menu appears.
- Your selection is activated.



NOTE:

DTV CC:

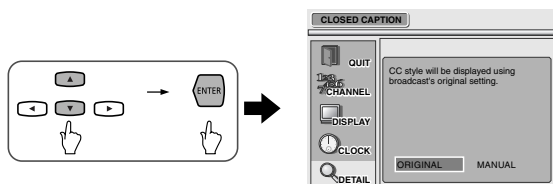
Apart from closed captions, DTV has its own closed captions called DTV CC. Use this menu to change the settings for DTV CC.

OFF: Select if you do not want DTV CC. This is the default.

SERVICE 1 to SERVICE 6: Select one of these before changing any other item in the CLOSED CAPTION menu. Choose SERVICE 1 under normal circumstances.

10 Select CC STYLE using navigation buttons ▲ / ▼, then press ENTER.

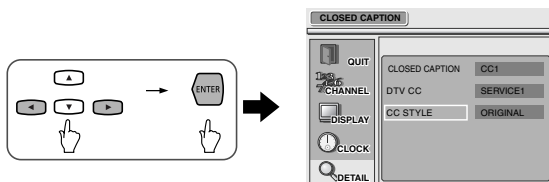
- The CC STYLE selection screen appears.



11 Select the setting you want for CC STYLE using navigation buttons ◀ / ▶, then press ENTER.

If you selected ORIGINAL

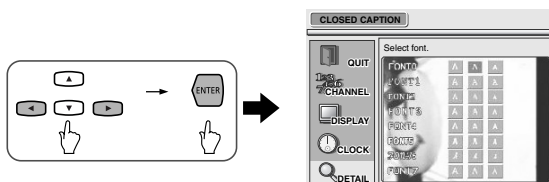
- CLOSED CAPTION menu appears.
- The CC STYLE is original.



Go to step [17].

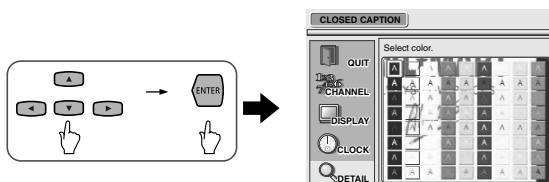
If you selected MANUAL

- The Font selection screen appears.



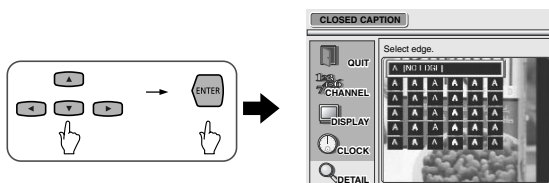
12 Select the font you want using navigation buttons ▲ / ▼ / ◀ / ▶, then press ENTER.

- The Color selection screen appears.



13 Select the color you want using navigation buttons ▲ / ▼ / ◀ / ▶, then press ENTER.

- The Edge selection screen appears.

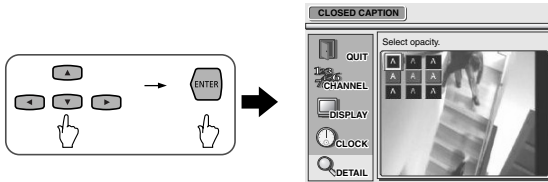


NOTE:

This page is skipped if you selected a transparent color for the foreground.

14 Select the edge you want using navigation buttons ▲ / ▼ / ◀ / ▶, then press ENTER.

- The Opacity selection screen appears.

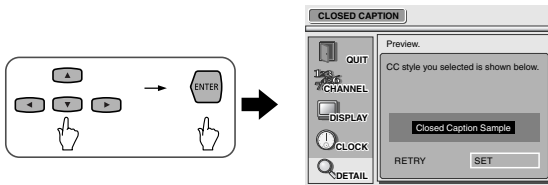


NOTE:

Three types are shown if you selected a transparent color for the foreground or background.

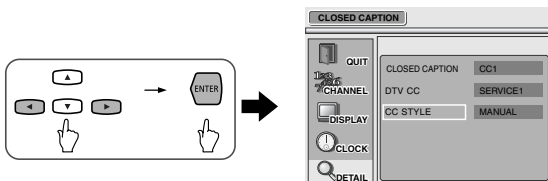
15 Select the opacity you want using navigation buttons ▲ / ▼ / ◀ / ▶, then press ENTER.

- The CC Style preview screen appears.



16 Select SET using navigation buttons ◀ / ▶, then press ENTER.

- CLOSED CAPTION menu appears.
- Your selection is activated.



- To do the CC STYLE settings again from Font, select RETRY and press ENTER.

17 Press SETUP to exit SETUP menu.

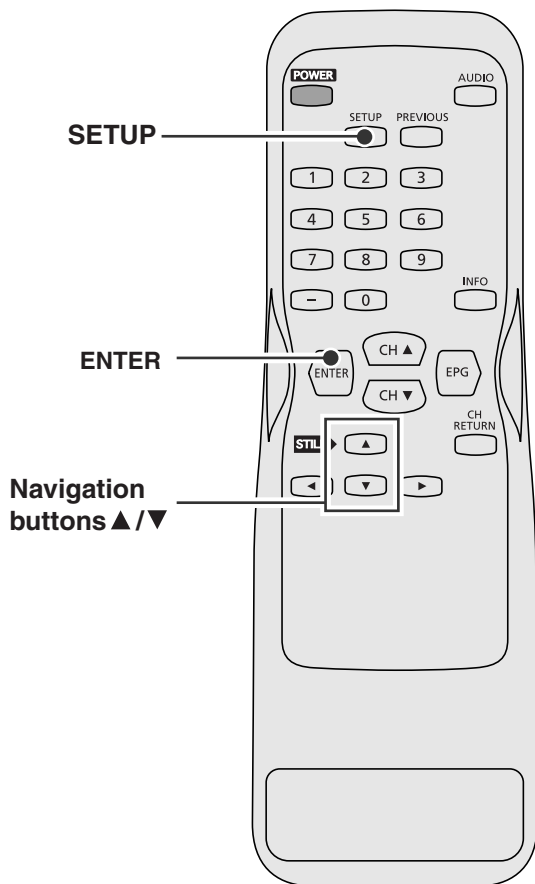
Choosing the screen language

MENU LANGUAGE

Choose English, French or Spanish for the screen menu.

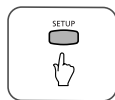
NOTE:

ENGLISH is the default.



1 Press SETUP to display SETUP menu.

Remote:

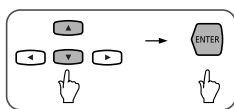


Screen:



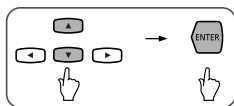
2 Select DETAIL using navigation buttons ▲/▼, then press ENTER.

- DETAIL menu appears.



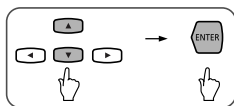
3 Select MENU LANGUAGE using navigation buttons ▲/▼, then press ENTER.

- Language menu appears.



4 Select the language using navigation buttons ▲/▼(e.g., French), then press ENTER.

- The language you select is now used for on-screen displays.

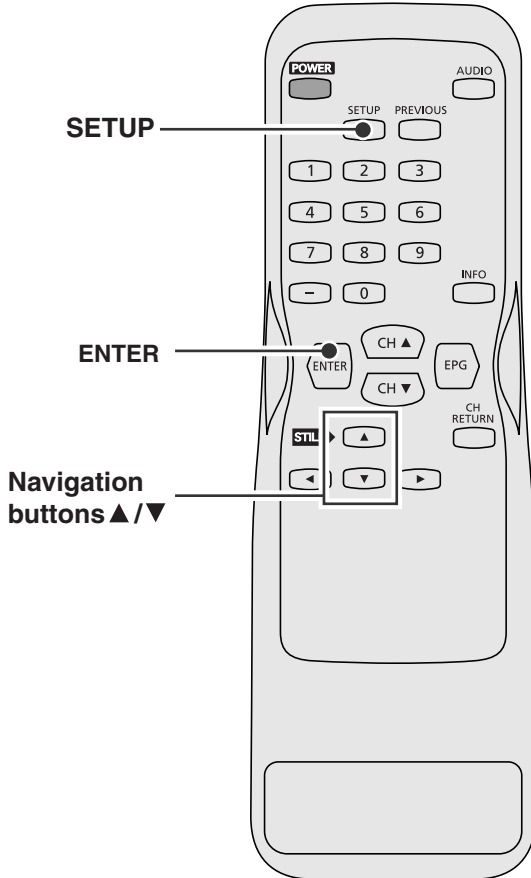


5 Press SETUP to exit SETUP menu.

Choosing sound effects

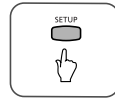
SOUND EFFECTS

Choose whether to have sounds on or off when using on screen menus.

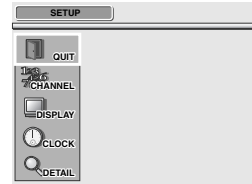


1 Press SETUP to display SETUP menu.

Remote:

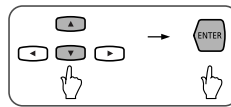


Screen:

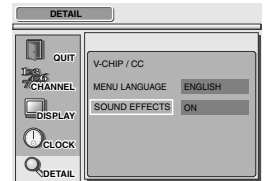
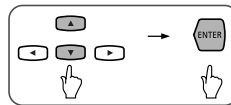


2 Select DETAIL using navigation buttons ▲/▼, then press ENTER.

- DETAIL menu appears.



3 Select SOUND EFFECTS using navigation buttons ▲/▼, then press ENTER to switch between ON and OFF.



4 Press SETUP to exit SETUP menu.

NOTE:

Sound effects are only when using on screen menu.

Troubleshooting

Before requesting service for this unit, check the table below for a possible cause of the problem you are experiencing. Some simple checks or a minor adjustment on your part may eliminate the problem and restore proper operation.

Symptom	Remedy
No power	• Make sure that the AC power cord is securely plugged into the power outlet. • Make sure that STB is turned on.
The STB is not responding to the remote control unit	• Make sure to point the remote control unit at the remote control sensor. • You may be too far from STB. Try moving closer. • Remove any obstacles between the remote control and the remote control sensor. • Make sure that the batteries are installed in the correct direction (+ and -). • The batteries may be depleted. Replace them with new ones. • Before using the remote control unit to operate, press buttons on the front panel of STB instead.
No picture	• Make sure that the video cable is correctly connected. • Make sure that video devices (TV or monitor) are turned on. • Make sure that video devices (TV or monitor) are correctly set to STB video output channel. Refer to your television's manual for further information. • Check the video cable. Either an S-video cable or a standard video cable is required. Do not connect them at the same time. • Check the antenna and the antenna cable. There may be damage or interfering sources. • Make sure that the output selection switch (DVI, COMP.) is set to "COMP." if the STB is connected to a video device (TV or monitor) via the COMP. jacks. • Make sure that the output selection switch (DVI, COMP.) is set to "DVI" if the STB is connected to a video device (TV or monitor) via the DVI jack. • Make sure that the RESOLUTION SELECT switch (1080i/720p/480p) is set to resolution suited the video device (TV or monitor) if the STB is connected to a video device via the COMP. or the DVI jacks. Refer to your television's manual for further information.
Blocked noise on picture	• There may be interfering sources.
No EPG or the provided information is wrong	• Make sure that the clock had been correctly set. In CLOCK of SETUP menu, you need to set correctly DST, TIME ZONE and MANUAL.
No sound	• Make sure that the audio cable is correctly connected. • Make sure that audio devices (stereo, TV or decoder) are turned on. • Make sure that audio devices (stereo or decoder) are correctly set to STB audio output channel. • Check the audio cable. Either a standard audio cable, coaxial digital audio cable or optical digital audio cable is required. Do not connect them at the same time. • When TV has only one audio input jack, use a standard audio cable (white) to connect the audio output jack (white) on STB to the audio input jack on the TV. The standard audio cable (red) and the audio output jack (red) are not required.

Symptom	Remedy
No reception	• Make sure to complete AUTOSCAN in SETUP WIZARD or EXTENDED SCAN in SETUP menu. It will be required when you setup STB for the first time or when STB is moved to a location where other channels are broadcast. • The selected channel does not exist at that time. There are not always sub-channels being broadcast. • When AUTOSCAN is interrupted and not completed, some channels will not be received. Make sure to complete AUTOSCAN or EXTENDED SCAN in SETUP menu.
The entered channel number changes automatically	• Many digital channels have alternate channel numbers. STB changes the numbers automatically to the ones signifying the broadcasting stations.
No reception of channels with weak signal (AUTOSCAN)	• Some channels are not received with AUTOSCAN in SETUP menu. Use EXTENDED SCAN for better results.
When you forget the password for V-CHIP	• Unplug the AC power cord and wait for approx. 5 seconds, then enter the default number "0000."
Closed captioning display (TEXT mode) does not go off even after changing channels through STB.	• Change the TV setting to a mode other than VIDEO. • Change channels through the TV. • Turn off the power of the TV, then turn on the power again.
The screen goes blank just after turning the STB on.	• This is a normal part of the start-up process and is not a malfunction.
Channels without a signal remain after scanning with AUTOSCAN or EXTENDED SCAN.	• Scanning finds new channels, but it does not delete old ones. Delete unwanted channels in ADD/DELETE in the SETUP menu.

Specifications

Product

STB for ATSC

Connecting Jacks

ANT IN

F connector (75 ohm)

Smart ANT. Control

1-ANT Control jack

Video Output (component)

3-pin jacks (Y, Pb, Pr)

S-Video Output

Mini DIN 4-pin jack (75 ohm)

Video Output

1-pin jack, 1Vpp

Digital Video Output

1-DVI-D HDCP jack

Analog Audio Output

2-pin jacks (L, R)

450 mVrms (100k ohm)

Digital Audio Output

1-pin jack coaxial (Dolby Digital)

1-jack optical (Dolby Digital)

Power Source

120 VAC+/-10 %, 60 Hz+/-0.5 %

Power Consumption

20 W (Power on), Less than 1 W (Power off)

ENERGY STAR adopted.

Operating Condition

41 F° (5 C°) - 104 F° (40 C°)

Dimensions (W x H x D)

11-1/16" x 2-5/16" x 10-1/8"

(281 mm x 59 mm x 257 mm)

Weight

4.0 lbs. (1.8 Kg)

Designs and Specifications are subject to change without notice.

Glossary and Acronyms

ATSC - Advanced Television Systems Committee:

This group is working to establish the standards for digital television broadcasting and digital television equipment for both SDTV and HDTV.

Audio map:

Audio languages from a broadcasting station are stored in an audiomap.

Audio output jack:

Audio output jack is located on the rear panel of STB and send audio signals to other devices.

Autoscan:

AUTOSCAN can receive available digital channels and store these in a channel map.

Component video output jacks (Y/ Pb/ Pr):

The component video output jacks on the rear panel of STB provide better picture than VIDEO and S-VIDEO. You can select the video resolution by using the RESOLUTION SELECT switch.

DIGITAL AUDIO OUT (OPT. or COAX.) jack:

DIGITAL AUDIO OUT (OPT. or COAX.) jack send digital audio data to audio devices equipped with a digital audio input (coaxial or optical) jack.

Dolby Digital:

Dolby Digital can provide 6 independent soundtrack channels through the DIGITAL AUDIO OUT (OPT. or COAX.) jack. Connect to an external Digital Audio receiver/decoder to enjoy more dynamic and realistic sound at home.

DST - Daylight Savings Time**DVI - Digital Visual Interface:**

This interface transmits the video signal digitally, so there is less deterioration, which results in a higher quality picture. When connected to a HDCP-compliant television you can also watch copy-protected movies and television programs.

Electronic Program Guide (EPG):

EPG is the electronic equivalent of a printed television program guide.

You can view a list of programs scheduled for from the next few hours up to the next seven days.

HD - High Definition**HDCP - High-bandwidth Digital Content Protection:**

Digital broadcasting allows you to view high-resolution movies and television programs in your own home. HDCP technology prevents these high-quality images from copyright infringement.

HDTV - High Definition Television:

HDTV signal formats are 1080i (interlaced scan) and 720p (progressive scan). HDTV provides the highest resolution picture and audio in either stereo or 5.1 channel surround sound.

MPAA - Motion Picture Association of America:

A guild governing rating assignments to movies.

Password:

A stored 4-digit number that you must provide in order to make settings for V-CHIP/CC.

SD - Standard Definition**SDTV - Standard Definition Television:**

SDTV signal formats are 480p and 480i. SDTV provides lower resolution, yet presents a very sharp, clear picture. Lower resolution allows broadcasters to transmit multiple programs per channel.

Smart Antenna:

The Smart Antenna conforms to the CEA-909 standard. The STB controls the Smart Antenna, automatically tuning to strong signals, so you do not have to worry about the antenna once you have completed initial installation and setup.

Sub-Channel:

The compression of audio and video signals enables each digital channel to carry different programs on sub-channels. Select them by simply pressing CH ▲ / ▼ buttons on your remote control when available.

S-Video output jack:

S-Video output jack on the rear panel of STB provides a high-quality picture to video devices with S-Video input jacks.

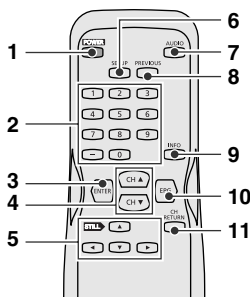
Video output jack:

The video output jack on the rear panel of STB sends video signals to other devices connected by video cable.

Antes de utilizar

Ubicación del control

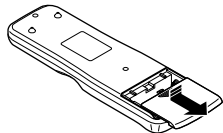
MANDO A DISTANCIA



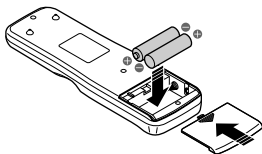
- 1 Botón POWER:** Conecta y desconecta el STB.
- 2 Botones numéricos:** Entre los números de canal, contraseñas y para ajustar la hora.
- 3 Botón ENTER:** En el menú SETUP, presione para entrar su selección.
- 4 Botones CH ▲ / ▼:** Cambie los canales hacia arriba o abajo.
- 5 Botones de navegación ▲ / ▼ / ◀ / ▶:** Mueva la línea resaltada hacia arriba, abajo, izquierda o derecha. Presione STILL ▲ para una imagen fija del video mientras continúa escuchando el audio.
- 6 Botón SETUP:** Entra o sale del menú SETUP.
- 7 Botón AUDIO:** Selecciona idiomas de audio alternativos (si existen).
- 8 Botón PREVIOUS:** Vuelve a la pantalla anterior en el menú SETUP o salga del menú.
- 9 Botón INFO:** Muestra información sobre el símbolo del canal o borra el símbolo.
- 10 Botón EPG:** Muestra o sale de la Guía de Programa Electrónico.
- 11 Botón CH RETURN:** Vuelve al canal que estaba viendo por último.

Instalación de pilas

- 1 Abra la cubierta de pilas de la parte trasera del mando a distancia.**



- 2 Instale dos pilas AA asegurándose que la polaridad (+ / -) sea la correcta.**

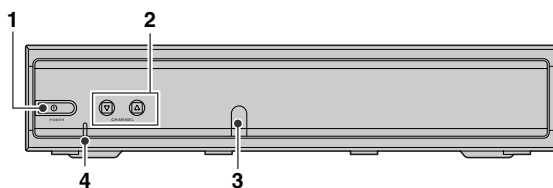


NOTA:

Cuando cambie las pilas, colóquelas en pares.

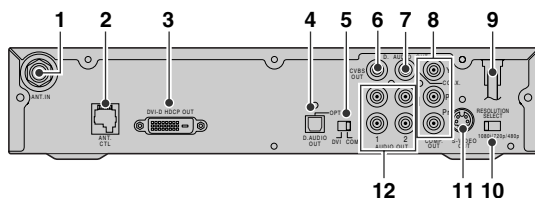
- 3 Cierre la cubierta de pilas.**

PANEL FRONTAL



- 1 Botón POWER:** Conecta y desconecta el STB.
- 2 Botones CHANNEL (V)/ (A):** Cambie los canales hacia arriba o abajo.
- 3 Sensor del mando a distancia:** Recibe señales de su mando a distancia para que pueda controlar el STB de una distancia.
- 4 Indicador POWER:** Se enciende cuando está conectado el STB. Cuando se conecta el STB, destella primero y después se enciende. Cuando se desconecta el STB, destella primero y se apaga.

PANEL TRASERO

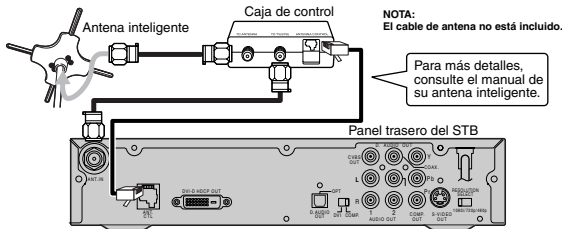


- 1 Toma ANT. IN:** Conecte una antena.
- 2 Toma ANT. CTL:** Conecte el cable de control de la antena inteligente. No para la toma telefónica.
- 3 Toma DVI-D HDCP OUT:** Utilice esta conexión o las tomas COMP. OUT para disfrutar del HDTV. Conecte un televisor que cumpla con EIA-861 y HDCP. Algunos monitores HD (alta definición) diseñados para aplicaciones de ordenador utilizando la toma DVI-D pueden no funcionar con esta conexión.
- 4 Toma DIGITAL AUDIO OUT (OPT.):** Conecte un decodificador o un amplificador con el cable óptico digital. Utilice esta toma o la toma coaxial para conectar un receptor con Dolby Digital para la reproducción Dolby Digital 5.1.
- 5 Interruptor DVI, COMP.:** Cuando se conectó la toma DVI-D HDCP OUT, cambie eso a DVI. Para la conexión de tomas COMP. OUT, cambie a COMP..
- 6 Toma CVBS OUT (Compuesto):** Conecte su TV o VCR con un cable de video normal.
- 7 Toma DIGITAL AUDIO OUT (COAX.):** Conecte un decodificador o un amplificador con un cable digital coaxial. Utilice esta toma o la toma óptica para conecta a un receptor con Dolby Digital para la reproducción Dolby Digital 5.1.
- 8 Tomas COMP. OUT (Y/Pb/Pr):** Utilice esta conexión o la toma DVI-D HDCP OUT para disfrutar del HDTV. Conecte su TV con cables de video componente. Y (verde), Pb (negro), Pr (rojo)
- 9 Cable eléctrico de CA:** Conecte a una salida de CA.
- 10 Interruptor RESOLUTION SELECT (1080i/720p/480p):** Seleccione la resolución de salida de video STB - 1080i, 720p o 480p. El ajuste por omisión es 1080i. Cambie este ajuste de acuerdo con su televisor cuando se conectó por la toma DVI-D HDCP OUT o las tomas COMP. OUT.
- 11 Toma S-VIDEO OUT:** Conecte su TV con un cable S-Video.
- 12 Tomas AUDIO OUT (2 pares):** Conecte su TV, sistema estéreo o VCR con cable de audio normales.

NOTA para la salida de audio: Tanto el audio digital como analógico salen durante las emisiones digitales. Cuando desea salir el audio digital, conecte un decodificador digital en la toma audio digital (coaxial u óptico). Consulte la página que describe las conexiones a un decodificador con Dolby Digital.

Conexiones de antena

Conexión de la antena inteligente

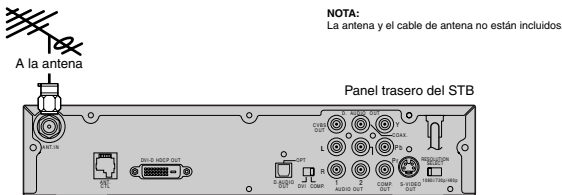


Antes de conectar, asegúrese que el cable eléctrico de CA NO está conectado al tomacorriente de CA.

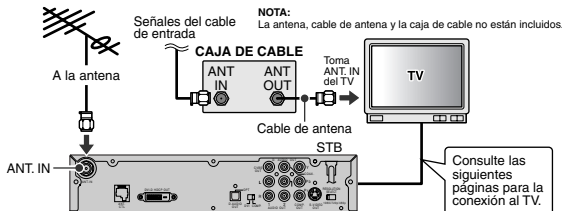
Para conectar la antena inteligente, para más detalles consulte su manual de antena inteligente.

- 1 Utilice un cable de antena coaxial de 75 ohmios para conectar la antena inteligente en la toma TO ANTENNA en la caja de control.
- 2 Utilice otro cable de antena coaxial de 75 ohmios para conectar la toma TO TV (STB) en la caja de control a la toma ANT. IN en el STB.
- 3 Utilice el cable de control de la antena inteligente para conectar la toma ANTENNA CONTROL en la caja de control a la toma ANT. CTL en el STB.
- 4 Consulte las página 67-68 para conectar su equipo audiovisual.

Conexión a una antena inteligente



CUANDO CONECTE TAMBIEN A LA CAJA DE CABLE:



Antes de la conexión, asegúrese que el cable eléctrico de CA NO esté conectado al tomacorriente de CA.

- 1 Conecte la antena inteligente (o uno diferente si lo prefiere). La señal es óptima cuando se utiliza la antena inteligente.
- 2 Conecte el cable de entrada a la toma de entrada de antena en la caja de cable.
- 3 Conecte la toma de salida de antena en la caja de cable a la toma de entrada de antena en el TV.
- 4 Enchufe el cable eléctrico de CA del TV en el tomacorriente de CA y encienda el TV.
- 5 Seleccione el canal de salida de la caja de cable, por ejemplo, canal 3 ó 4.

NOTA:

Para más detalles, consulte el manual de su televisor.

- 6 Enchufe el cable eléctrico de CA del STB en el tomacorriente de CA y active el STB.
- 7 Consulte las páginas 67-68 para conectar a su equipo audiovisual.

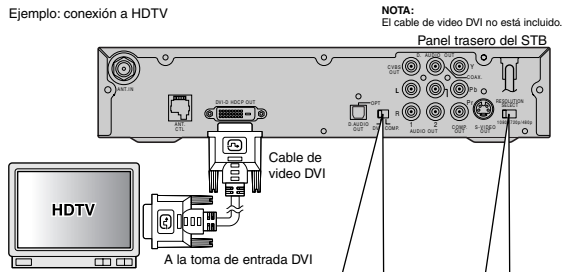
Conexiones de TV/Monitor

Hay distintas formas de conectar el STB a un TV o monitor. Conecte de acuerdo con su equipo y formato de pantalla. Las siguientes páginas muestran algunas conexiones a modo de ejemplo.

- Seleccione un tipo de conexión de video (a menos que también desee conectar un equipo de grabación.)
- Cuando cambie las conexiones, desconecte todos los equipos.
- Consulte cada manual del propietario para información adicional sobre los otros equipos.
- Después de conectar el TV o monitor, seleccione el tipo de conexión de audio deseado.

Conexión STB utilizando la toma DVI-D HDCP OUT en HDTV

Ejemplo: conexión a HDTV



Interruptor de selección de salida (DVI, COMP.)

Para más detalles, vea el manual del TV para los tipos de tomas que existen.

Posición del interruptor de selección de salida



DVI COMP.

Cambie a DVI. El STB produce una salida de video por la toma DVI-D HDCP OUT en la resolución seleccionada con el interruptor RESOLUTION SELECT.

Interruptor RESOLUTION SELECT (1080i/720p/480p)

Vea el manual del televisor para más detalles sobre la resolución que puede tener.

Resolución de TV	Posición del interruptor RESOLUTION SELECT
1080i	1080i/720p/480p Seleccione 1080i si su televisor puede mostrar una resolución de video de 1080i.
720p	1080i/720p/480p Seleccione 720p si su televisor puede mostrar una resolución de video de 720p.
480p	1080i/720p/480p Seleccione 480p si su televisor puede mostrar una resolución de video de 480p.

- 1 Consulte las "Conexiones de antena" para conectar el STB a la Antena Inteligente (o uno diferente si lo prefiere).
- 2 Utilice un cable de video DVI (DVI-D) para conectar la toma DVI-D HDCP OUT en el STB a la toma de entrada DVI en su televisor.

NOTA:

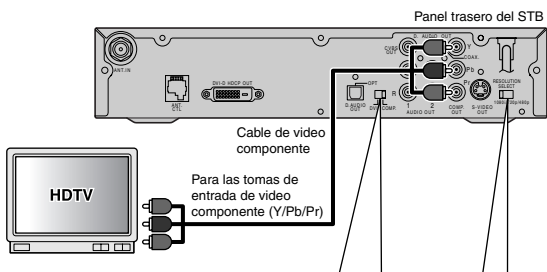
Conecte la toma de entrada DVI que cumple EIA-861 y HDCP. Algunos Monitores HD diseñados para aplicaciones Pc utilizando la toma DVI-D puede no funcionar con esta conexión. Para más detalles, consulte con el manual del televisor.

- 3 Cambie el interruptor de resolución de salida (DVI, COMP.) a "DVI".
- 4 Cambie el interruptor RESOLUTION SELECT (1080i/720p/480p) de acuerdo con su televisor. Para más detalles, consulte el manual del televisor.
- 5 Enchufe el cable eléctrico de CA del televisor en el tomacorriente de CA y encienda el televisor.
- 6 Cambie el modo de entrada del televisor al correspondiente a la toma de entrada DVI. Para más detalles, consulte el manual del televisor.
- 7 Enchufe el cable eléctrico de CA del STB en el tomacorriente de CA y actívelo.

Conexión STB utilizando las tomas COMP. OUT al HDTV

Ejemplo: Conexión a HDTV

NOTA:
El cable de video componente no está incluido.



Interruptor de selección de salida (DVI, COMP.)

Vea el manual del televisor para más detalles sobre los tipos de toma que debe tener.

Posición el interruptor de selección de salida



Cambia a COMP. El STB produce una salida de video por las tomas COMP. OUT (Y, Pb, Pr) a la resolución seleccionada con el interruptor RESOLUTION SELECT.

Interruptor RESOLUTION SELECT (1080i/720p/480p)

Vea el manual de su televisor para más detalles sobre la resolución que puede utilizar.

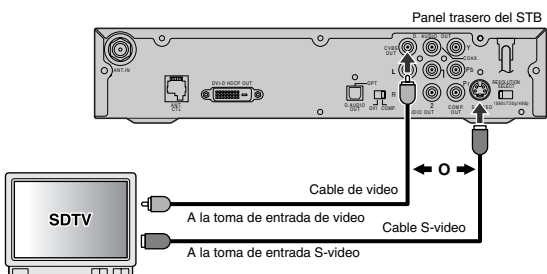
Resolución de TV	Posición del interruptor RESOLUTION SELECT
1080i	Selecione 1080i si su televisor puede mostrar una resolución de video de 1080i.
720p	Selecione 720p si su televisor puede mostrar una resolución de video de 720p.
480p	Selecione 480p si su televisor puede mostrar una resolución de video de 480p.

- 1 Consulte las "Conexiones de Antena" para conectar el STB a la antena inteligente (o una diferente si lo prefiere).
- 2 Utilice cables de video componente para conectar las tomas COMP. OUT (Y/Pb/Pr) en el STB a las tomas de entrada de video componente en su televisor.
- 3 Cambie el interruptor de selección de salida (DVI, COMP.) a "COMP."
- 4 Cambie el interruptor RESOLUTION SELECT (1080i/720p/480p) de acuerdo con su televisor. Para más detalles, consulte el manual de su televisor.
- 5 Enchufe el cable eléctrico de CA de su televisor en el tomacorriente de CA y encienda el televisor.
- 6 Cambie el modo de entrada del televisor al correspondiente a las tomas de entrada de video componente. Refer to your television's manual for details.
- 7 Enchufe el cable eléctrico de CA del STB en el tomacorriente de CA y conecte su alimentación.

Conexión STB utilizando la toma S-VIDEO OUT o CVBS OUT (Compuesto) a SDTV

Ejemplo Conexión a SDTV

NOTA:
El cable S-video y el cable de video no están incluidos.



- 1 Consulte las "Conexiones de Antena" para conectar el STB a la antena inteligente (o una diferente si lo prefiere).

- 2 Utilice un cable S-video para conectar la toma S-VIDEO OUT en el STB a una toma de entrada S-video en el TV.
O
Utilice un cable de video normal para conectar la toma CVBS OUT (Compuesta) en el STB a la toma de entrada de video en su TV.
- 3 Enchufe el cable eléctrico de CA del televisor en el tomacorriente de CA y encienda el televisor.
- 4 Cambie el modo de entrada del televisor al correspondiente a la toma que conectó.
Para más detalles, consulte el manual de su televisor.
- 5 Enchufe el cable eléctrico de CA del STB en el tomacorriente de CA y conecte su alimentación.

NOTA:

Cuando utilice una de estas conexiones, la resolución de la salida de señal de video será siempre 480i.

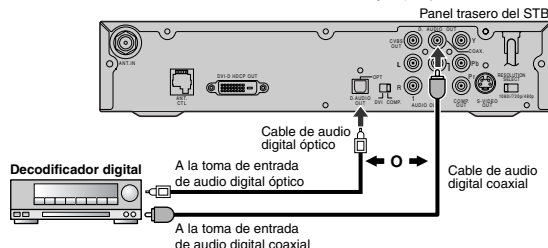
Otras conexiones

Hay distintas formas de conectar el STB a un equipo de audio o equipo de video. Conecte de acuerdo con su equipo. Las siguientes páginas muestran algunas conexiones a modo de ejemplo.

- Elija un tipo de conexión de audio (a menos que desee conectar un equipo de grabación).
- Cuando cambie las conexiones, desconecte el interruptor principal de todos los equipos.
- Consulte cada manual del propietario para más detalles sobre otros equipos.

Conexión STB a un decodificador con Dolby Digital

Ejemplo: Conexión al decodificador digital **NOTA:**
Los cables de audio digital óptico y coaxial no están incluidos.

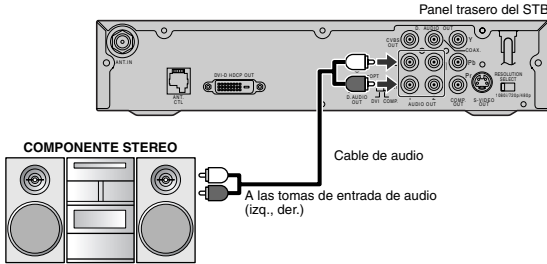


- 1 Consulte las "Conexiones de Antena" para conectar el STB a la antena inteligente (o una diferente si lo prefiere).
- 2 Consulte las "Conexiones de TV/Monitor" para conectar el STB y el TV con un cable de video.
- 3 Conecte este cable de audio digital óptico o coaxial de la toma DIGITAL AUDIO OUT (OPT. o COAX.) en STB a una toma de entrada de audio digital óptica o coaxial en el decodificador digital.
- 4 Enchufe el cable eléctrico de CA del decodificador en un tomacorriente de CA y conecte el decodificador.
- 5 Ajuste el decodificador al modo de entrada.
Para más detalles, consulte el manual de su decodificador.
- 6 Enchufe el cable eléctrico de CA del STB en el tomacorriente de CA y conecte su alimentación.

Conexión STB a un sistema estéreo normal

Ejemplo: Conexión al STEREO COMPONENT

NOTA:
El cable de audio no está incluido.

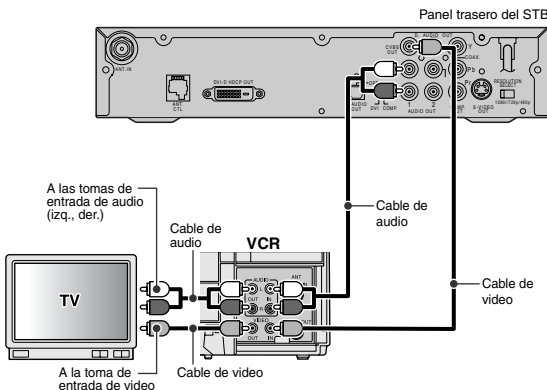


- 1 Consulte las “Conexiones de Antena” para conectar el STB a la antena inteligente (o una diferente si lo prefiere).
- 2 Consulte las “Conexiones de TV/Monitor” para conectar el STB y el TV con un cable de video.
- 3 Utilice un cable de audio normal para conectar las tomas AUDIO OUT (izq., der.) en el STB a las tomas de entrada de audio (izq., der.) en el equipo estéreo.
- 4 Enchufe el cable eléctrico de CA del sistema estéreo en el tomacorriente de CA y conecte la alimentación del sistema estéreo.
- 5 Cambie el sistema estéreo al modo de entrada del audio conectado del STB.
Para más detalles, conecte el manual de su sistema estéreo.
- 6 Enchufe el cable eléctrico de CA del STB en el tomacorriente de CA y conecte su alimentación.

Conexión STB al TV y equipos de video (VCR, grabador DVD, etc.)

Ejemplo: Conexión al VCR

NOTA:
Los cables de audio y video no están incluidos.



- 1 Consulte las “Conexiones de Antena” para conectar el STB a la antena inteligente (o una diferente si lo prefiere).
- 2 Utilice un cable de audio normal para conectar las tomas AUDIO OUT (izq., der.) en el STB a las tomas de entrada de audio (izq., der.) en el VCR.

NOTA:

Si su VCR es monoaural (MONO) y sólo tiene una toma de audio, utilice un cable de audio normal (blanco) para conectarla toma AUDIO OUT (blanca) en el STB a la toma de entrada de audio (blanca) en el VCR. El cable y toma rojos no se utilizarán.

- 3 Utilice un cable de video normal para conectar la toma CVBS OUT. (compuesta) en el STB a la toma de entrada de video en el VCR.
- 4 Utilice un cable de video normal para conectar la toma de salida de video en el VCR a la toma de entrada de video en el TV.

- 5 Utilice el cable de audio normal para conectar el juego de tomas de salida de audio (izq., der.) en el VCR a las tomas de entrada de audio (izq., der.) en el TV.
- 6 Enchufe todos los cables eléctricos de CA en los tomacorrientes de CA y conecte la alimentación de todos los equipos.
- 7 Ajuste el TV y VCR al modo de entrada.
Para más detalles, consulte el manual de su televisor o VCR.

NOTA:

Cuando utilice estas conexiones, la resolución de la salida de señal de video será siempre 480i.

Ajustes iniciales (Asistente de ajuste)

Ajuste inicial

ASISTENTE DE AJUSTES

El ASISTENTE DE AJUSTES es una conveniente forma de personalizar los ajustes del STB.

Cuando se conecta el STB por primera vez después de enchufar el cable eléctrico de CA, aparece automáticamente ASISTENTE DE PREP. (SETUP WIZARD) en la pantalla. Puede completar los siguientes ítems para los ajustes iniciales por este menú.

- Idioma para la pantalla
- Búsqueda de canales
- Hora de verano (DST)
- Husos horarios
- Año/fecha/hora
- Reloj
- Relación de aspecto de la pantalla y modo de indicaciones

- 1 **Encienda el TV y seleccione la entrada a la que se conecta el STB.**
- 2 **Conecte la alimentación del STB utilizando el POWER y aparece ASISTENTE DE PREP. (SETUP WIZARD).**
 - Demora unos 8 segundos en aparecer el ASISTENTE DE PREP. (SETUP WIZARD) después de conectar la alimentación.
- 3 **Seleccione SETUP utilizando los botones de navegación ◀ / ▶ y presione ENTER.**
 - Aparece ASISTENTE DE PREP. (SETUP WIZARD) 1/8.
- 4 **Seleccione el idioma utilizando los botones de navegación ▲ / ▼ y presione ENTER.**
 - Se activa el idioma seleccionado.
 - Aparece ASISTENTE DE PREP. 2/8.
- 5 **El STB empieza a buscar canales.**
 - Espere hasta que se complete la búsqueda.
 - Cuando se completa la búsqueda, aparece “100%” en el recuadro y aparece la siguiente pantalla.

Para saltar la búsqueda:

Presione ENTER.

NOTA:

- El STB recibe los canales digitales existentes y los memoriza en un mapa de canales. Estos canales pueden seleccionarse utilizando los botones CH ▲ / ▼ después del ajuste inicial.
- Si salta el paso [5], los canales digitales pueden no recibirse correctamente.

6 Aparece ASISTENTE DE PREP. 3/8.

7 Seleccione ON u OFF para la hora de verano. (DST) utilizando los botones de navegación ◀ / ▶ y presione ENTER.

- Aparece ASISTENTE DE PREP. 4/8.

8 Seleccione su huso horario con los botones de navegación ▲ / ▼ / ◀ / ▶ y presione ENTER.

- Aparece ASISTENTE DE PREP. 5/8.

9 Entre AÑO, FECHA y HORA utilizando los botones de navegación ▲ / ▼ / ◀ / ▶ o los botones numéricos.

- Cada vez que entre un número, presione ENTER para mover el cursor.
- Cuando vuelve y avanza, presione los botones de navegación ◀ / ▶ para mover el cursor.

NOTA:

Después de entrar toda la información, el cursor se mueve a AJUSTE.

CONSEJO:

Para entrar el AÑO, entre las dos últimas cifras del año (por ejemplo, entre "04" y aparecerá 2004.)

10 Presione ENTER cuando el cursor está en AJUSTE.

- Se activan sus ajustes.
- Aparece ASISTENTE DE PREP. 6/8 y el STB empieza a buscar los canales con el ajuste de reloj automático para mantener la hora correcta.
- Los canales con datos de reloj aparecen en la lista y aparecen en negro en el mapa de canales.
- Aparece "Búsqueda de canales terminada." cuando se completa la búsqueda.
- Aparece "Ningún canal encontrado." si el STB no pudo encontrar canales con los datos de reloj.

11 Utilice los botones de navegación ▲ / ▼ para seleccionar el canal que desea para reunir los datos de reloj del mapa de canales y presione ENTER.

- Si no desea utilizar AUTO para ajustar la hora, seleccione OFF y presione ENTER.
- Aparecen cinco canales en el mapa de una vez. Siga presionando los botones de navegación ▲ / ▼ para mostrar otros canales.
- Aparece la ventana de información de la hora y el STB empieza a buscar la información de la hora en el canal seleccionado.
- Cuando el STB ha terminado de reunir la información de la hora, aparece la fecha y la hora de acuerdo con el canal.
- Aparece "No hay inform. de la hora." si el STB no pudo encontrar la información de la hora del canal seleccionado.

12 Si esta información mostrada es satisfactoria, utilice los botones de navegación ▲ / ▼ para seleccionar AJUSTE y presione ENTER.

- Aparece ASISTENTE DE PREP. 7/8.
- Si la hora mostrada es incorrecta o la hora no aparece, seleccione CANCELAR y presione ENTER. Después repita los pasos [11] y [12] utilizando otro canal.

13 Seleccione la relación de aspecto de la pantalla utilizando los botones ▲ / ▼ y presione ENTER.

- Aparece ASISTENTE DE PREP. 8/8.

14 Seleccione el modo de indicación deseado utilizando los botones de navegación ▲ / ▼ y presione ENTER.

- Se completa el ASISTENTE DE AJUSTES.
El STB empieza a recibir emisoras.

NOTA:

La unidad no debe dejarse durante conectada durante largo tiempo ya que puede producirse un calentamiento excesivo.

SYLVANIA

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DURATION:

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LABOR: FUNAI CORP. will provide the labor without charge for a period of ninety (90) days from the date of original retail purchase.

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<http://www.funai-corp.com>

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