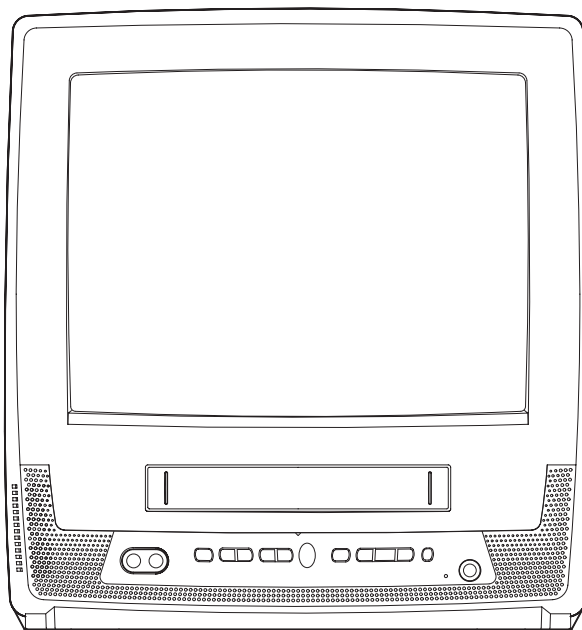


OWNER'S MANUAL

Symphonic

13-INCH COLOR TV/VCR SC1304



INSTRUCCIONES EN ESPAÑOL INCLUIDAS.

If you need additional assistance for set-up or operating after reading owner's manual, please call **TOLL FREE : 1-800-242-7158.**
Or visit our **WEB SITE** at <http://www.Symphonic.us>

VHS

Please read before using this equipment

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 unit 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 the unit manufacturer as they may cause hazards.

7. Water and Moisture - Do not use this unit 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 unit on an unstable cart, stand, tripod, bracket, or table. The unit 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 the unit.

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.

PORTABLE CART WARNING



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.

SYMBÔLE D'AVERTISSEMENT POUR LES COMPOSANTES APPAREIL ET MEUBLE À ROULETTES



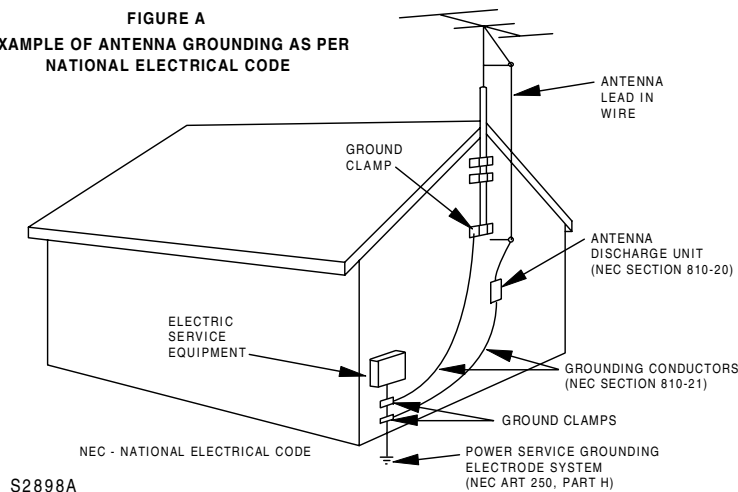
9. Ventilation - Slots and openings in the cabinet and the back or bottom are provided for ventilation and to ensure reliable operation of the unit and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the unit on a bed, sofa, rug, or other similar surface. This unit should never be placed near or over a radiator or heat register. This unit 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 unit 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 units intended to operate from battery power, or other sources, refer to the operating instructions.

11. Grounding or Polarization - This unit 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



13. Outdoor Antenna grounding - If an outside antenna or cable system is connected to the unit, 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 unit 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 the unit 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 unit 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 the unit.

18. Servicing - Do not attempt to service this unit 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 unit 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 the unit.
- If the unit has been exposed to rain or water.
- If the unit 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 the unit to its normal operation.
- If the unit has been dropped or damaged in any way.
- When the unit 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 unit, ask the service technician to perform routine safety checks to determine that the unit is in proper operating condition.

22. Heat - This unit 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 CHOCs 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 your unit, 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 the unit in a horizontal position.
- Avoid locations subject to strong vibration.
- Do not place the unit near strong magnetic fields.
- Avoid moving unit to locations where temperature differences are extreme.
- Be sure to unplug the AC power cord from the outlet before carrying the unit.

TO 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 the unit cassette holder.
- Do not place anything directly on top of the unit.

MOISTURE WARNING

Moisture condensation may occur inside the unit when it is moved from a cold place to a warm place, or after heating a cold room or under conditions of high humidity. If a tape is played in a unit which has moisture, it may damage the tape and unit. Therefore when the condensation occurs inside the unit, turn the unit on and allow at least 2 hours for the unit to dry out.

The serial number of this product may be found on the back of the unit. No other unit 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. | |

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 manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

RADIO-TV INTERFERENCE

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.

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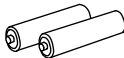
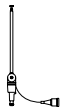

A NOTE ABOUT RECYCLING

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.

FEATURES

- **Infrared remote control**
- **Trilingual on screen menu display available in English, Spanish or French**
- **Real time counter**—This shows the elapsed recording or playback time in hours, minutes and seconds. The “—” indication will appear when the tape is rewound further than the tape counter position “0:00:00”.
- **181 channel capability PLL frequency synthesizer tuner with direct station call**
(A converter may be necessary to view scrambled cable channels.)
- **Auto Clock Setting**—Allows you to set the clock function from a PBS broadcast station.
- **Closed caption system**—You may view specially labeled (cc) TV programs, movies, news, pre-recorded tapes, etc. with either a dialogue caption or text display added to the program.
- **Game mode**—Automatically sets external input mode and allows unit display to be suitable for use with video games.
- **Auto power on and off system**—Automatically turns on the unit when you insert the cassette, turns off after auto-rewind, and ejects when the beginning of the tape is reached.
- **Auto rewind when the end of a tape is reached**
(This function doesn't occur when using timer recording.)
- **2 Step picture search operation**—You can view a video program at a high speed or super high speed in either a forward or reverse direction in LP and SLP mode. For SP mode only high speed is available.
- **Three different playback tape speeds : SP/LP/SLP**
- **Two different recording tape speeds : SP/SLP**
- **Auto Head Cleaner**—Automatically cleans video heads as you insert or remove a cassette.
- **Zero Return**—The tape returns to counter of 0:00:00 by rewinding or fast forwarding.
- **Still**—Freeze the picture at any time, for close viewing of a particular scene. Only tapes recorded in SLP mode will show a fairly clear picture.
- **Digital Auto Tracking (DTR)**—Automatically adjusts the tracking for each tape you play.
- **Rental play mode**—Improves playback picture quality from worn tapes, such as rental tapes.
- **Auto repeat**—Allows you to repeat the playing of a tape indefinitely without pressing the PLAY button.
- **Time search**—Let you set the unit to advance the tape by entering the desired playback time you want to skip.
- **OTR (One Touch Recording)**—Instant timed recording from 30 to 480 minutes is possible at the push of the REC/OTR button.
- **1 Year, 8 events (including Daily and Weekly) Timer Recording**—The built-in timer allows you to record up to 8 programs at different times on different channels up to 1 year in advance. The Daily timer allows recordings to be made of daily broadcasts and the Weekly timer allows recording to be made once a week up to the end of the tape.
- **Auto return**—After timer recording is finished, the unit can return to the beginning of the recording.
- **Wake up/Sleep timer**—Allows you to have the unit automatically turn on or off at a desired time.
- **Timer Program Extension**—Allow you to shift the time schedule for automatic timer recording.
- **V-CHIP**—Enables parents to prevent their children from watching inappropriate material on TV.

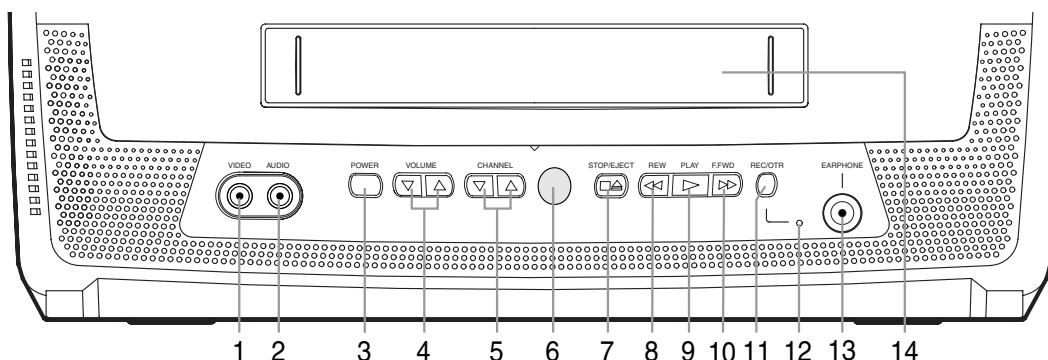
SUPPLIED ACCESSORIES

| | | | |
|---|---|---|--|
| Remote Control Unit (N0150UD)  | 2 AA Batteries  | Rod Antenna (0EMN01755)  | Owner's Manual (1EMN21952)  |
|---|---|---|--|

- If you need to replace these accessories, please refer to the PART NO. and call our help line mentioned on the front page.
- Depending on your antenna system, you may need different types of Combiners (Mixer) or Separators (Splitter). Contact your local electronics store for these items.
- We do not recommend the use of universal remote controls. Not all of the functions may be controlled with a universal remote control. If you decide to use a universal remote control with this unit, please be aware that the code number given may not operate this unit. In this case, please call the manufacturer of the universal remote control.

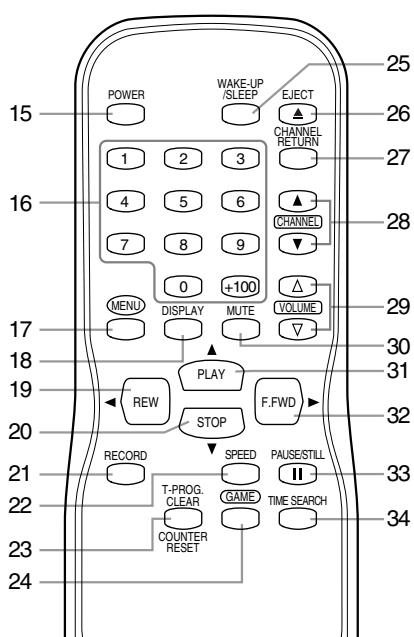
OPERATING CONTROLS AND FUNCTIONS

- CONTROL PANEL -



- 1 **VIDEO input jack**– Connect to the Video output jack of a video camera or VCR.
- 2 **AUDIO input jack**– Connect to the Audio output jack of an audio equipment, video camera or VCR.
- 3 **POWER button**– Press to turn the unit on and off. Press to activate timer recording.
- 4 **VOLUME ▽/△ buttons**– Adjust the volume level.
- 5 **CHANNEL ▽/△ buttons**– Use to select the desired channels for viewing or recording.
TRACKING function– Use to minimize video ‘noise’ (lines or dots on screen) during playback mode. (Refer to page 18.)
- 6 **Remote Sensor Window**– Receives the infrared signals from the remote control.
- 7 **STOP/EJECT □ ▲ button**– Press to stop the tape motion. Press in the stop mode to remove the cassette from the unit.
- 8 **REW ◀◀ button**– Press to rewind the tape or to view the picture rapidly in reverse during playback mode. (Rewind Search)
- 9 **PLAY ▶ button**– Press to start playback.
- 10 **F.FWD ▶▶ button**– Press to rapidly advance the tape or to view the picture rapidly in forward during playback mode. (Forward Search)
- 11 **REC/OTR button** – Press to start manual recording. Press repeatedly to start One Touch Recording (OTR).
- 12 **Record indicator**– Flashes during recording. Lights up in the stand-by mode for Timer Recording.
- 13 **EARPHONE jack**– Connects to earphones (not supplied) for personal listening. The size of jack is 1/8" (3.5mm) monaural.
- 14 **Cassette compartment**

- REMOTE CONTROL -

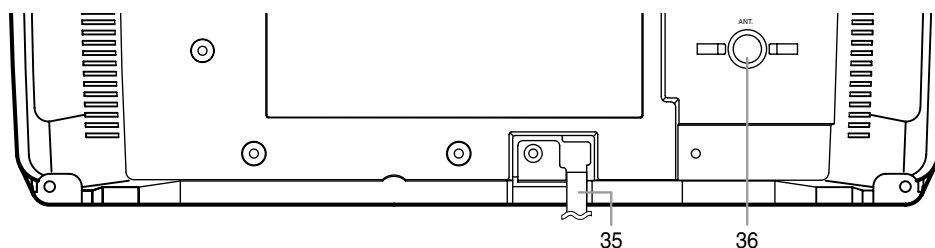


- 15 **POWER button**– Press to turn the unit on and off. Press to activate timer recording.
- 16 **Number buttons**– Use to select desired channels for viewing or recording. To select a single-digit channel, press [0] first and then [1] to [9].
+100 button– When selecting cable channels which are higher than 99, press this button first, then enter the last two digits. (To select channel 125, first press [+100] button then press [2] and [5].)
- 17 **MENU button**– Press to enter or exit the setting menu.
- 18 **DISPLAY button**– Press to display the counter or the current channel number and current time on the TV screen. (Refer to page 25.)
- 19 **REW / ◀ (cursor) button**–
 - Press to rewind the tape or to view the picture rapidly in reverse during playback mode. (Rewind Search)
 - Press to select a mode from the setting menu.
- 20 **STOP / ▼ (cursor) button**–
 - Press to stop the tape motion.
 - Press to select a mode or figure from the setting menu.

- 21 RECORD button**– Press to start manual recording.
- 22 SPEED button**– Press to choose the desired recording speed:SP/SLP.
- 23 T-PROG. CLEAR button**– Press to cancel a setting of timer program. (Refer to page 24.)
- COUNTER RESET button**– Press to reset counter to 0:00:00.
- 24 GAME button**– Press to set the Game mode and external input mode at the same time. (Refer to page 15.)
- 25 WAKE-UP/SLEEP button**– Sets the Wake up or Sleep Timer. (Refer to page 14.)
- 26 EJECT ▲ button**– Press in the stop mode to remove the cassette from the unit.
- 27 CHANNEL RETURN button**– Press to go back to the previously viewed channel. Press again to return to the present channel.
- 28 CHANNEL ▲/▼ buttons**– Use to select the desired channels for viewing or recording.
- TRACKING function**– Use to minimize video ‘noise’ (lines or dots on screen) during playback mode. (Refer to page 18.)

- 29 VOLUME ▲/▼ buttons**– Adjust the volume level.
- 30 MUTE button**– Press to mute the sound. Press it again to restore the sound.
- 31 PLAY / ▲ (cursor) button**–
- Press to start playback.
 - Press to select a mode or figure from the setting menu.
- 32 F.FWD / ► (cursor) button**–
- Press to rapidly advance the tape or to view the picture rapidly in forward during playback mode. (Forward Search)
 - Press to determine your selection and proceed to the next step in the setting menu.
- 33 PAUSE/STILL II button**– Press to temporarily stop the tape during the recording or to view a still picture during playback.
- 34 TIME SEARCH button**– Press to activate Time Search mode.

- REAR VIEW -

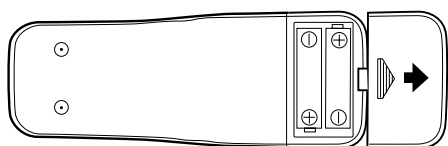


35 Power cord– Connect to a standard AC outlet (120V/60Hz). (Refer to page 10.)

36 ANT(ENNA). jack– Connect to an antenna, cable system or satellite system. (Refer to page 9.)

INSTALLING THE BATTERIES

- 1)Open the battery compartment cover by pressing the cover on the remote unit in the direction of the arrow.
- 2)Insert 2 “AA” penlight batteries into the battery compartment in the direction indicated by the polarity (+/-) markings.
- 3)Replace the cover.



[BATTERY PRECAUTIONS]

- Be sure to follow the correct polarity as indicated in the battery compartment. Reversed batteries may cause damage to the device.
- Do not mix different types of batteries together (e.g. Alkaline and Carbon-Zinc) or old batteries with fresh ones.
- If the device is not to be used for a long period of time, remove the batteries to prevent damage or

injury from possible battery leakage.

- Do not try to recharge batteries not intended to be recharged; they can overheat and rupture.

IR SIGNAL CHECK

Use the AM radio or the digital camera to check if the remote control properly sends out the infrared signal. It will help to define the cause of malfunction.

Using AM radio

- Tune the AM radio to no broadcasting station. Press any button on remote control toward the radio. If the radio receives the signal from remote control properly, the sound will flutter.



Using digital camera (including built-in camera of cellular phone)

- Press and hold any button on remote control toward a digital camera. The remote control is working if you confirm infrared light through the digital camera.

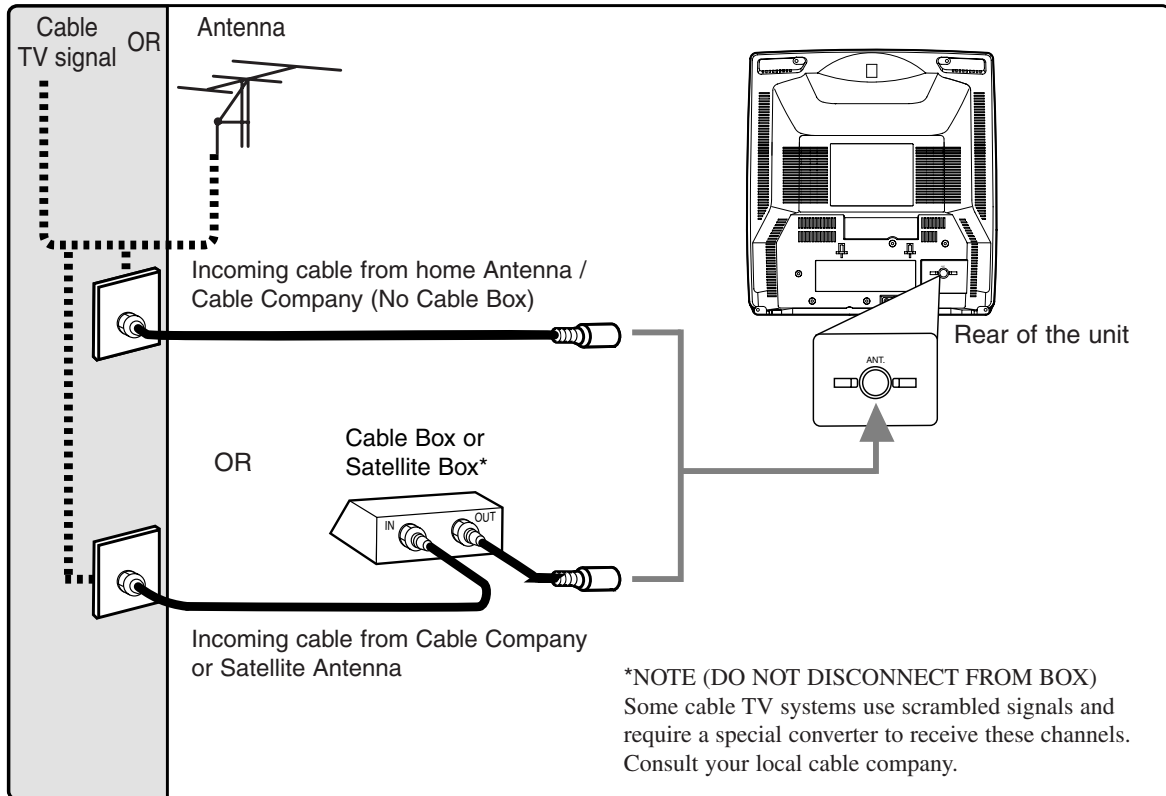


PREPARATION FOR USE

ANTENNA/CABLE CONNECTIONS

Plug the incoming cable into the ANT. jack on the rear of the unit.

If your cable service supplies you with a converter box or if you use a satellite system, connect the box with this unit as shown below.

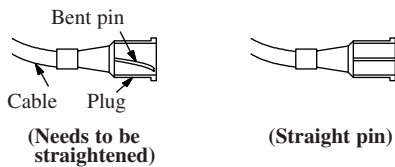


Note to CATV system installer:

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

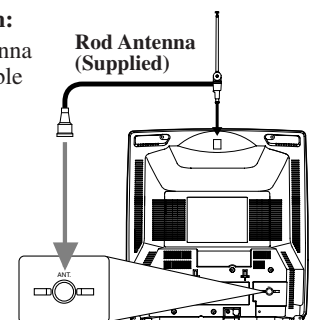
NOTE:

Before plugging the antenna into the ANT. jack of the unit, check that the pin is not bent. If it is bent, straighten the pin as illustrated, then plug the pin into the ANT. jack of the unit.



Rod Antenna Connection:

You can use the Rod Antenna (Supplied) if incoming cable is not available.



For your safety and to avoid damages to the unit, unplug the antenna cable from the ANT. jack before moving the unit.

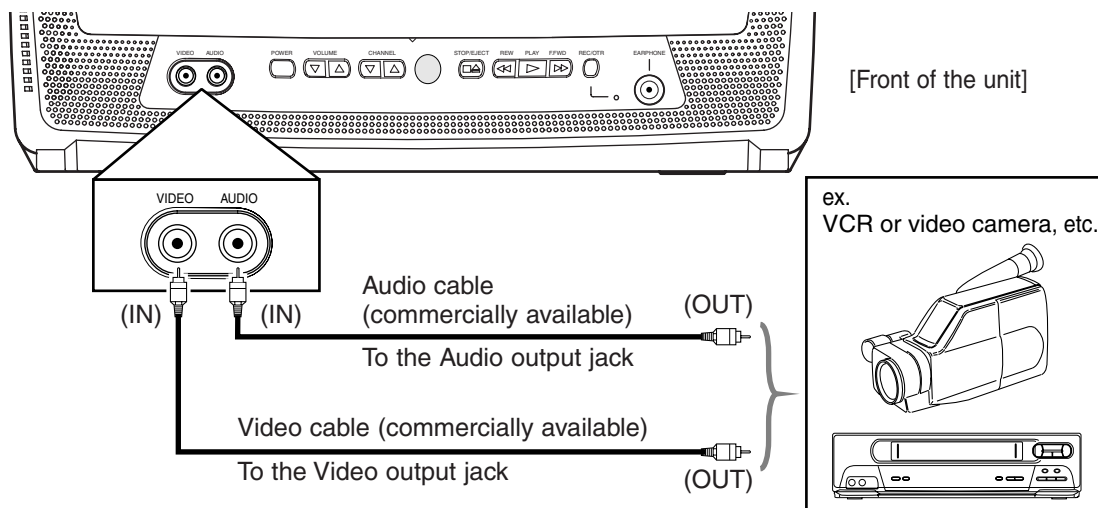
USING FRONT A/V INPUT JACKS

When you watch a program recorded on another source (VCR or video camera), use the AUDIO/VIDEO input jacks on the front of the unit.

Connect the Audio/Video output jacks of another source to the AUDIO and VIDEO jacks of this unit.

Then use [CHANNEL ▲/▼] until "AUX" appears on the screen.

AUX



TV OPERATION AND SETTINGS

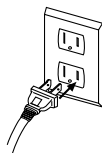
WATCHING A TV PROGRAM

1 Plug in the power cord

After antenna or cable connection is completed, connect the power cord into a standard AC outlet.

NOTE:

- If any digits appear in the corner of the screen, press [POWER] without unplugging the power cord.



2 Turn on the unit

Press [POWER] to turn on the unit.

3 Select the channel number

Use [CHANNEL ▲/▼] or the **Number buttons** to select your desired channel number.

Note for using the Number buttons:

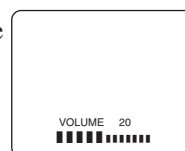
- You must precede single-digit channel numbers with a zero (for example: 02, 03, 04 and so on).
- When selecting cable channels which are higher than 99, press [+100] first, then enter the last two digits. (Example: to select channel 125, first press [+100] then press [2] and [5].)

4 Adjust sound

Use [VOLUME ▲/▼] to adjust the volume.

Press [MUTE] to instantly mute the sound.

Press it again to restore the previous sound level.



TO WATCH CABLE OR SATELLITE CHANNEL

- If the unit is connected to a cable box or satellite box, use [CHANNEL ▲/▼] to select CH3 or CH4 according to the output channel setting of the device and select desired channel on that device.

TO WATCH EXTERNAL INPUT

- When an external equipment is connected to the front AUDIO/VIDEO input jacks, use [CHANNEL ▲/▼] repeatedly until "AUX" appears on the screen.

CHANNEL SET UP

Make sure ...

- The unit must be turned on.

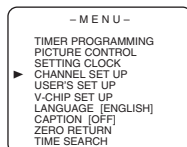
AUTO CHANNEL PROGRAMMING

As the initial setting, this unit has memorized all channels, including the ones not available in your area. This feature automatically puts only available channels into the memory.

1 Select "CHANNEL SET UP"

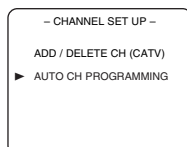
Press [MENU].

Use [PLAY/▲] or [STOP/▼] to point to "CHANNEL SET UP", then press [F.WD/▶].



2 Begin channel scanning

Use [PLAY/▲] or [STOP/▼] to point to "AUTO CH PROGRAMMING", then press [F.WD/▶]. The tuner scans and memorizes all the active channels in your area.



3 After scanning

The tuner stops on the lowest memorized channel.

NOTES:

- If there is no TV signal input, "NO TV SIGNALS" will appear on the display after the completion of channel scanning.
- The unit may recognize TV channels to be CATV channels if reception condition is poor. In this case, check the antenna connection and try "AUTO CH PROGRAMMING" again when reception conditions are better.
- **Auto channel programming is NOT necessary when connected to a cable box or satellite box. Just select the channel for the cable box or satellite input (ex. CH3 or CH4) on the unit, then select your desired channel on the cable box or satellite box.**

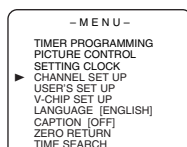
ADDING/DELETING CHANNELS

The channels you no longer receive or seldom watch can be deleted from the memory. (Of course, you can add the deleted channel into the memory again.)

1 Select "CHANNEL SET UP"

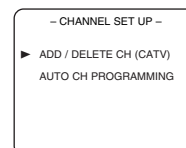
Press [MENU].

Use [PLAY/▲] or [STOP/▼] to point to "CHANNEL SET UP", then press [F.WD/▶].



2 Select "ADD / DELETE CH"

Use [PLAY/▲] or [STOP/▼] to point to "ADD / DELETE CH", then press [F.WD/▶].

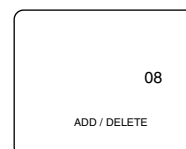


3 Enter the desired channel number

Use [PLAY/▲] or [STOP/▼] or **the Number buttons** until your desired channel number appears. (You can also use

[CHANNEL ▲/▼] to enter it.)

- You must precede single-digit channel numbers with a zero (Example: 02 ... 09).
- When selecting cable channels which are higher than 99, press [+100] first, then enter the last two digits. (Example: to select channel 125, first press [+100] then press [2] and [5].)



4 Delete (or add) it from (or into) memory

Use [REW/◀] or [F.WD/▶] then the channel number turned to red. The channel is deleted from memory. If the channel number turned to blue, the channel is added into memory.

- To delete another channel, repeat steps 3 to 4.
- If you use [REW/◀] or [F.WD/▶] again, the channel is memorized again.

Added channel : Light blue
Deleted channel : Light red

5 Exit the channel setup mode

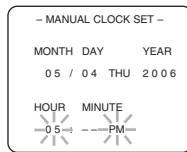
Press [MENU] to returns to TV mode.

NOTE:

- To confirm that channel(s) has been deleted or added, use [CHANNEL ▲/▼].

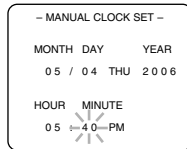
6 Select the hour

Use [PLAY/▲] or [STOP/▼] until your desired hour appears.
(Example: “05”, “PM”)
Then press [F.FWD/▶].



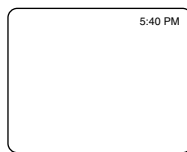
7 Select the minute

Use [PLAY/▲] or [STOP/▼] until the desired minute appears.
(Example: “40”)



8 Start the clock

Press [MENU].
Although seconds are not displayed, they begin counting from 0 when you press [MENU]. Use this feature to synchronize the clock with the correct time.



NOTE:

- When unplugging the AC cord or if there is a power failure for more than 3 seconds, you may have to reset the clock.

TO CHANGE CLOCK SETTING

If you want to change the clock,

- 1) Follow steps **1** to **2** on page 12.
- 2) Select the item you want to change using [REW/◀] or [F.FWD/▶].
- 3) Enter correct numbers using [PLAY/▲] or [STOP/▼].
- 4) Press [MENU] to start the clock.

NOTE:

- If there is no local PBS station in your area or on your cable system, select “AUTO CLOCK” and use [REW/◀] or [F.FWD/▶] to turn [OFF] this function. Then you can manually adjust the clock.

AUTOMATIC CLOCK SETTING

Make sure ...

- The unit must be turned on.
- Confirm the unit is receiving a RF (Radio Frequency) signal from either an antenna or cable system connection using the ANT. jack on the rear of the unit.

NOTES:

- If a cable converter box is being used, make sure it is powered on.
- You must use the remote control to perform the clock setting procedure.
- If the unit is connected directly to a cable converter box or satellite box, the local PBS station must be selected on the cable box itself and the unit must be set to the output channel of the cable converter box or satellite box (usually CH3 or CH4), to be able to set up or correct the clock automatically.

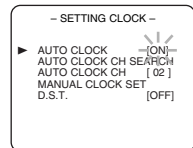
1 Select “SETTING CLOCK”

Press [MENU].
Use [PLAY/▲] or [STOP/▼] to select “SETTING CLOCK”, then press [F.FWD/▶].



2 Set “AUTO CLOCK” to [ON]

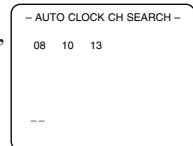
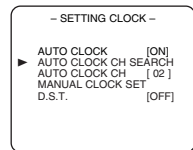
Press [F.FWD/▶] until “AUTO CLOCK [ON]” appears.



3 Begin “AUTO CLOCK CH SEARCH”

Press [STOP/▼] to select “AUTO CLOCK CH SEARCH”.
Then press [F.FWD/▶].

- The unit begins searching for the station which contains the auto clock set signal. The search for a signal may take up to 20 seconds per channel.
- When the search has ended, “_ _ _” appears at the lower left of the screen.
- Write down the number(s) that appear on the screen. They are the auto clock station(s) in your area.
- If no number(s) appear on the TV screen, there are no stations in your area which contain the Auto Clock signal. Auto Clock setting is not possible. Please use Manual Clock setting on pages 12 and 13. Press [MENU] to exit the screen.



NOTE:

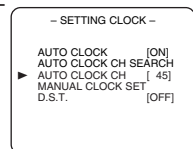
- During AUTO CLOCK CH SEARCH, the picture may be distorted.

4 Enter the channel number that contains the Automatic Clock Setting signal

Follow step **1** above to select “SETTING CLOCK” menu.

Press [STOP/▼] to select “AUTO CLOCK CH”.

Use [REW/◀] or [F.FWD/▶] until you locate Auto Clock Set station number that you wrote down at step **3**.
Press [MENU] to exit the screen.



5 Turn off the unit

Once the unit is turned off, it will periodically check and set the correct date and time.

DAYLIGHT-SAVING TIME

When Daylight-Saving Time is ON, the clock will change automatically as follows:

- **First Sunday of April** : At 2 AM the clock immediately changes to 3 AM. Any timer programming you have set to occur between 2 AM and 3 AM will not record.
- **Last Sunday of October** : At 2 AM the clock immediately changes to 1 AM.

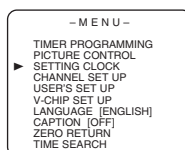
Make sure ...

- The unit must be turned on.

1 Select "SETTING CLOCK"

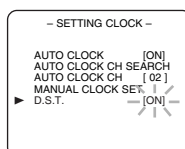
Press [MENU].

Use [PLAY/▲] or [STOP/▼] to point to "SETTING CLOCK", then press [F.FWD/▶].



2 Set "D.S.T." (Daylight-Saving Time) to [ON]

Use [PLAY/▲] or [STOP/▼] to point to "D.S.T.", then use [REW/◀] or [F.FWD/▶] until "ON" appears.



3 Exit the Daylight-Saving Time mode

Press [MENU] to return to TV mode.

TO CANCEL THE DAYLIGHT-SAVING TIME

Repeat steps 1 to 2 and select [OFF] using [REW/◀] or [F.FWD/▶].

WAKE UP TIMER

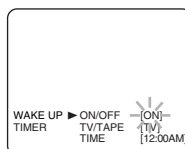
The Wake Up Timer function turns on the unit without using [POWER] after a desired period of time.

NOTES:

- Use the remote control for this procedure.
- Clock must be set to the correct time before setting the timer.
- If you want to select [TAPE], you must insert a cassette tape in the unit. The tape will start playback automatically on your desired time.

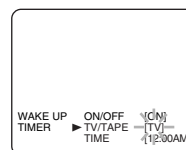
1 Call up "WAKE UP TIMER" setting

Press [WAKE-UP/SLEEP] once, and confirm "ON/OFF" is pointed. Use [REW/◀] or [F.FWD/▶] until [ON] appears.



2 Select "TV" or "TAPE"

Use [PLAY/▲] or [STOP/▼] until to point to "TV/TAPE". Use [REW/◀] or [F.FWD/▶], and select [TV] or [TAPE].

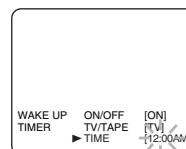


3 Set wake up time

Use [PLAY/▲] or [STOP/▼] until to point to "TIME".

Use [REW/◀] or [F.FWD/▶] until your desired wake up time appears.

Each additional press will increase (or decrease) the time by 10 minutes.



4 Exit the Wake Up Timer setting

Press [MENU] to return to TV mode.

TO CANCEL THE WAKE UP TIMER

Select [OFF] at step 1.

SLEEP TIMER

The Sleep Timer function turns off the unit without using [POWER] after a desired period of time.

NOTES:

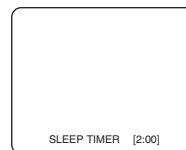
- This function does not work during Recording mode.
- Use the remote control for this procedure.

1 Call up "SLEEP TIMER" setting

Press [WAKE-UP/SLEEP] repeatedly so that "SLEEP TIMER" appears.

2 Set sleep time

Use [PLAY/▲], [STOP/▼], [REW/◀] or [F.FWD/▶] until your desired sleep time appears. Each additional press will increase the time by 30 minutes up to 120. Press [MENU] to exit the Sleep Timer setting.



TO CANCEL THE SLEEP TIMER

Press [WAKE-UP/SLEEP] until "SLEEP TIMER" appears.

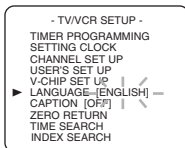
Use [PLAY/▲], [STOP/▼], [REW/◀] or [F.FWD/▶] until [OFF] appears.

MENU LANGUAGE

1 Select "LANGUAGE"

Press [MENU].

Use [PLAY/▲] or [STOP/▼] to point to "LANGUAGE".



2 Select "ENGLISH", "ESPAÑOL" or "FRANÇAIS"

Use [REW/◀] or [F.FWD/▶] repeatedly to select "ENGLISH", "ESPAÑOL"= Spanish or "FRANÇAIS"= French.

3 Exit the Language mode

Press [MENU] to turn to TV mode.

NOTES:

- This function effects only the language on the screen menu and not the audio source.
- If for some reason the menu is in Spanish or French, press [MENU], use [PLAY/▲] or [STOP/▼] to point to "IDIOMA [ESPAÑOL]" or "LANGAGE [FRANÇAIS]", then press [F.FWD/▶] repeatedly to select desired language, then press [MENU].

CLOSED CAPTION SYSTEM

You can view specially labeled (cc) TV programs, movies, news and pre-recorded tapes with either a dialogue caption or text display.

CAPTION mode: You can watch dramas, movies and news while captioning the dialogues and the contents of news.

TEXT mode: You can watch half screen text information if you want.

1-2: You may get these captions or text information by selecting either "1" or "2". Caption "2" is usually used for a second language if available.

NOTES:

- Not all programs are broadcast with closed captions. Your unit is designed to provide error free closed captions from high quality antenna, cable and VCR signals. Conversely, poor quality signals are likely to result in caption errors or no captions at all.

Common signal conditions which may cause caption errors are listed below:

- Automobile ignition noise
 - Electric motor brush noise
 - Weak snowy reception on TV screen
 - Multiplex signal reception displaying picture ghosts or airplane flutter
 - Playback of poorly recorded or worn VCR tapes
- If the unit displays a black box on the TV screen, this means that the unit is set to the TEXT mode. To clear screen, select [CAPTION1], [CAPTION2] or [OFF].



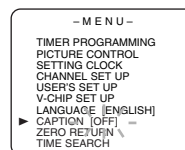
Make sure ...

- The unit must be turned on.

1 Select "CAPTION"

Press [MENU].

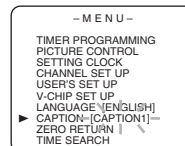
Use [PLAY/▲] or [STOP/▼] to point to "CAPTION".



2 Select your desired caption menu

Use [REW/◀] or [F.FWD/▶] until your desired caption menu appears.

([CAPTION1], [CAPTION2], [TEXT1] or [TEXT2])



3 Exit the Caption setting mode

Press [MENU] to return to TV mode.

NOTE:

- Even if there is a power failure of any kind, the unit will retain its memory for this feature.

TO CANCEL THE CLOSED CAPTION SYSTEM

Repeat steps 1 to 2 and select [OFF] using [REW/◀] or [F.FWD/▶]. Then press [MENU] to return to TV mode.

DEGAUSSING

This television has a degaussing circuit that will clear up color errors on the TV screen that are caused by any excess magnetism which happens to get too close to the TV. This circuit is designed to operate once when the set is first plugged in. **If minor color errors are seen in some locations on the screen, please unplug the TV for approximately 30 minutes.** When the TV is plugged back in, the degaussing circuit will operate once to clear them up. Repeat this procedure any time the TV screen is accidentally magnetized or when the TV is moved or relocated.

GAME MODE

This function enables you to decrease the TV screen contrast and make it suitable for use with a video game.

NOTE: This function **CANNOT** be set during recording.

Press [GAME] on the remote control. "GAME" appears on the screen. When you press [GAME];

- The unit comes on automatically if it is off.
- The unit will be in external input mode automatically.



TO CANCEL THE GAME MODE

Use [GAME] or [CHANNEL ▲▼] on the remote control.

V-CHIP SET UP

This feature enables parents to prevent their children from watching inappropriate material on TV. When you try to access a program which is blocked, "PROTECTED PROGRAM by ..." message appears on the TV screen.

V-CHIP SET UP

Make sure ...

- The unit must be turned on.

1 Select "V-CHIP SET UP"

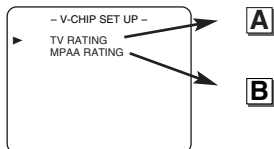
Press [MENU].

Use [PLAY/▲] or [STOP/▼] to select "V-CHIP SET UP", then press [F.FWD/▶].



2 Select the desired item

Use [PLAY/▲] or [STOP/▼] to select "TV RATING" or "MPAA RATING", then press [F.FWD/▶].



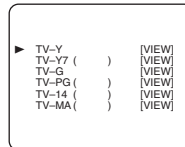
A TV RATING SET UP

Follow steps 1 to 2 in the "V-CHIP SET UP" section above.

3 Blocking TV programs

Use [PLAY/▲] or [STOP/▼] to select a rating that you wish to block.

Press [F.FWD/▶] repeatedly to set it to [BLOCK] or [VIEW].



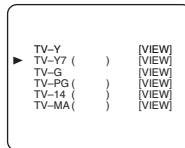
| Selection | Rating Category Explanations |
|-----------|--|
| TV-Y | Appropriate for all children |
| TV-Y7 | Appropriate for children seven and older |
| TV-G | General Audience |
| TV-PG | Parental Guidance suggested |
| TV-14 | Unsuitable for children under 14 |
| TV-MA | Mature audience only |

NOTES:

- When you select a rating and set it to [BLOCK], the higher ratings will be blocked automatically. The lower ratings will be available for viewing.
- When you set "TV-MA" to [VIEW], all ratings will turn to [VIEW] automatically.

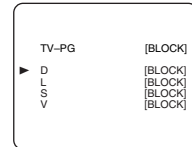
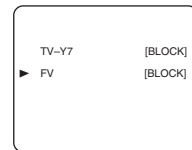
4 Setting "Sub-Ratings"

When you select the ratings of TV-Y7, TV-PG, TV-14 or TV-MA you will have the option of setting sub rating categories.



Use [PLAY/▲] or [STOP/▼] to select a rating with sub-ratings you wish to block, then press [F.FWD/▶] twice.

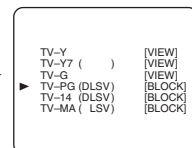
Use [PLAY/▲] or [STOP/▼] to select a sub-rating, then press [F.FWD/▶] to set it to [BLOCK] or [VIEW].



| Selection | Rating Category Explanations |
|---------------------|---|
| TV-Y7 | |
| FV | Fantasy Violence |
| TV-PG, TV-14, TV-MA | |
| D | Suggestive Dialogue (TV-PG, TV-14 only) |
| L | Coarse Language |
| S | Sexual Situation |
| V | Violence |

NOTE:

- The blocked sub-ratings will appear next to the rating category in the "TV RATING" menu.

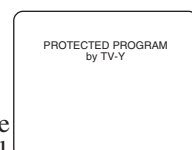


5 Exit the V-Chip setting mode

Press [MENU] to return to original mode.

NOTE:

- To change the rating, the TV must be turned to an unprotected program. If "PROTECTED PROGRAM by ..." appears on the screen, please change the channel to a station that is not protected.

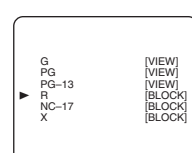


B MPAA RATING SET UP

Follow steps 1 to 2 in the "V-CHIP SET UP".

3 Select your desired item

Use [PLAY/▲] or [STOP/▼] to point to your desired item, then press [F.FWD/▶] to select [BLOCK] or [VIEW].



| Selection | Rating Category Explanations |
|-----------|---|
| G | General Audience |
| PG | Parental Guidance suggested |
| PG-13 | Unsuitable for children under 13 |
| R | Restricted; under 17 requires accompanying parent or adult guardian |
| NC-17 | No one under 17 admitted |
| X | Mature audience only |

- When you select a rating and set it to [BLOCK], the higher ratings will be blocked automatically. The lower ratings will be available for viewing.
- When you set "X" to [VIEW], all ratings will turn to [VIEW] automatically.

4 Exit the V-Chip setting mode

Press [MENU] to return to original mode.

VIDEO CASSETTE

This unit will operate with any cassette that has the **VHS** mark. For best results, we recommend the use of high-quality tapes. Do not use poor quality or damaged tapes.

PRECAUTIONS

- Avoid moisture. Moisture condensation may occur on the tape if it is moved from a cold place to a warm place or vice versa. Before using a tape with these conditions, to avoid damage of the tape and your unit, wait until the tape has warmed to room temperature and the moisture has evaporated.
- Avoid extreme heat, high humidity and magnetic fields.
- Do not tamper with the cassette mechanism.
- Do not touch the tape with your fingers.

TWO DIFFERENT TAPE SPEEDS

Before recording, select the tape speed from : **SP mode** (Standard Play) or **SLP mode** (Super Long Play).

The table below shows the maximum recording/playback time using T60, T120 or T160 tapes in each mode.

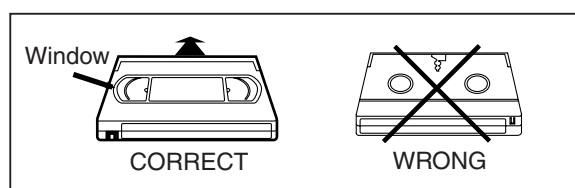
| Tape Speed | Recording/Playback Time | | | |
|------------|-------------------------|---------|---------|-------------|
| | Type of tape | T60 | T120 | T160 |
| SP mode | | 1 hour | 2 hours | 2-2/3 hours |
| SLP mode | | 3 hours | 6 hours | 8 hours |

NOTE:

- You can play back a tape recorded in LP mode (Long Play).

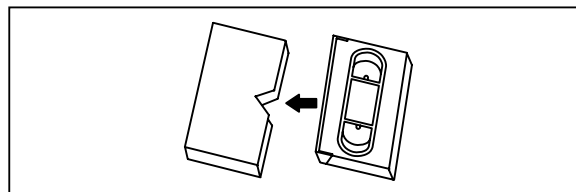
INSERTING A CASSETTE

Insert the cassette in the direction as shown. Push in gently, but continuously, on the center-back of the cassette until it is drawn into the unit. The unit will automatically turn on.



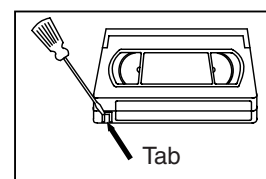
REMOVING A CASSETTE

- 1) In the stop mode, press **[STOP/EJECT □ ▲]** on the unit. The cassette will be ejected.
- 2) Pull the cassette out of the cassette compartment.
- 3) Store the cassette in its case as shown.

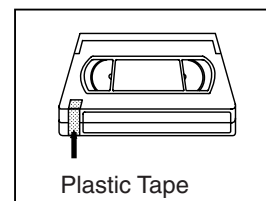


ERASE PREVENTION

You can prevent accidental erasing of recording by breaking off the tab on the back edge of the cassette.



If you decide to record on the tape again, cover the hole with plastic tape.



NOTE:

- If the cassette without tab is inserted, playback will automatically start.

PLAYBACK

NORMAL PLAYBACK

Make sure ...

- The unit must be turned on.

1 Insert a prerecorded tape

If the erase-prevention tab has been removed, the unit will start playback automatically.

2 To begin playback

Press [PLAY/▲].

NOTE:

- If any menu is activated on the screen, [PLAY/▲] does not function. Press [MENU] to exit the menu. Then, press [PLAY/▲].



3 To stop playback

Press [STOP/▼].



TRACKING ADJUSTMENT

- Tracking adjustment will be set automatically (Digital Auto Tracking function) when you start playback.
- Noise lines (black and white streaks) may appear on the playback picture when playing pre-recorded tapes or tapes recorded on other VCR. If this occurs, use [CHANNEL ▲/▼] until the streaks disappear. To return to the Digital Auto Tracking function, stop the tape once and start playback.

STILL PICTURE

You can view a still picture on the TV screen during playback (the Still mode). Press [PAUSE/STILL ■■] during playback. Only tapes recorded in the SLP mode will show the least amount of lines. Press [PLAY/▲] to return to playback.

NOTES:

- Usually there will be video “noise” lines (black and white streaks or dots) on the screen. This is normal.
- If the tape was originally recorded in SP or LP mode, the still picture will be black and white in addition to the “noise” lines.
This is not a fault of the machine, but is a by-product of the technology involved in producing a unit with 2 video heads.
- If the unit is left in the Pause mode for more than 5 minutes, the unit will automatically switch to the Stop mode.

NOISE CANCEL (in the Still mode)

This feature allows you to reposition or reduce the noise lines of a still picture. Press [PAUSE/STILL ■■] so that the noise lines change position on the screen so you can see the picture in its entirety without distracting noise lines.

NOTE:

- This feature can be activated **ONLY** when viewing a tape recorded in the SLP mode. If the tape was originally recorded in the SP or LP mode, the still picture may revert to black and white in addition to the “noise bars”. This is normal.

VERTICAL HOLD CONTROL

In the Pause/Still mode only, when the picture begins to vibrate vertically, stabilize the picture by using [CHANNEL ▲/▼].

NOTE:

- If there are video noise lines on the screen, reposition or reduce them. Refer to “NOISE CANCEL” above.

SPECIAL PLAYBACK

Make sure ...

- The unit must be turned on.
- Insert a prerecorded tape.

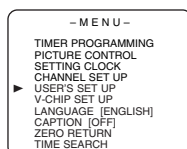
RENTAL PLAYBACK

This function enables you to improve the picture quality when playing back worn cassettes such as rented tapes.

1 Select "USER'S SET UP"

Press [MENU].

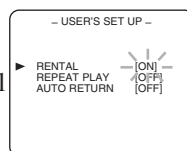
Use [PLAY/▲] or [STOP/▼] to point to "USER'S SET UP", then press [F.FWD/▶].



2 Set "RENTAL" to [ON]

Use [PLAY/▲] or [STOP/▼] to point to "RENTAL".

Use [F.FWD/▶] or [REW/◀] until [ON] appears.



3 Exit the Rental setting

Press [MENU] to return to the TV mode.

4 Start playback

Press [PLAY/▲] to start playback.

"RENTAL PLAY ▶" appears.

- Once you select the Rental mode, it stays in effect even after you turn off the unit.

TO CANCEL THE RENTAL MODE

Repeat steps 1 to 2 and select [OFF] using [REW/◀] or [F.FWD/▶]. Press [MENU] to return to TV mode.

Even if there is a power failure of any kind, the unit will retain its memory for this feature.

AUTO REPEAT PLAYBACK

The unit has the auto repeat function that allows you to repeat a tape indefinitely without pressing [PLAY/▲].

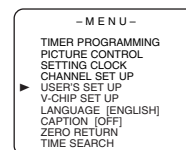
ALL REPEAT: Repeat playback from the beginning to the end of the tape.

BLANK REPEAT: Repeat playback from the beginning to a blank part, which is blank for more than 10 seconds.

1 Select "USER'S SET UP"

Press [MENU].

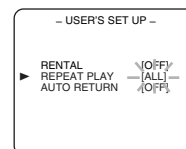
Use [PLAY/▲] or [STOP/▼] to point to "USER'S SET UP", then press [F.FWD/▶].



2 Select "ALL" or "BLANK"

Use [PLAY/▲] or [STOP/▼] to point to "REPEAT PLAY".

Use [REW/◀] or [F.FWD/▶] repeatedly until your desired selection [ALL] or [BLANK] appears.



3 Exit the Repeat Play setting

Press [MENU] to return to the TV mode.

4 Start playback

Press [PLAY/▲] to start the Repeat Play.

"REPEAT PLAY ▶" appears.

- Once you select the Repeat Play mode, it stays in effect even after you turn off the unit.
- If the Rental mode is set [ON], the "RENTAL PLAY ▶" display has priority.

TO CANCEL THE REPEAT PLAY MODE

Repeat steps 1 to 2 and select [OFF] using [REW/◀] or [F.FWD/▶]. Press [MENU] to return to TV mode.

Even if there is a power failure of any kind, the unit will retain its memory for this feature.

SEARCH

Make sure ...

- The unit must be turned on.
- Insert a prerecorded tape.

ZERO RETURN

This function allows you to search easily a beginning point that you want to review by rewinding or fast forwarding.

NOTE:

- Zero Return **WILL NOT** work on a blank tape or a blank portion of a tape.

1 Stop a tape at your desired point

Rewind or fast forward the tape to the beginning point at which you want to review.

2 Reset the counter to 0:00:00

Press [COUNTER RESET] repeatedly.

3 Begin recording or playback

Use [RECORD] or [PLAY/▲].

Press [STOP/▼] when recording or playback is completed.

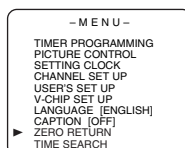
4 To activate "ZERO RETURN" mode

Press [MENU].

Use [PLAY/▲] or [STOP/▼] to point to "ZERO RETURN", then press [F.FWD/▶].

The counter will appear on the TV screen.

The tape will automatically stop when the counter returns to 0:00:00. (approx.)



PICTURE SEARCH

This feature is very useful in finding or skipping over a particular scene on a tape. In this mode, the sound will be muted.

1 Start Picture Search

During playback, use [REW/◀] or [F.FWD/▶] to view at a high speed (in reverse/forward).

2 Change searching speed

Use [REW/◀] or [F.FWD/▶] again to view at super high speed (in the LP/SLP modes only).

NOTE:

- Tapes recorded in the SP or LP mode will normally display a noise bar on the TV screen and the picture may revert to Black and White.

3 Return to normal speed

Press [PLAY/▲].

TIME SEARCH

The Time Search function makes it possible to quickly advance the tape to your desired position simply by entering the exact amount of playback time you want to skip.

NOTE:

- Time Search can be set up to a maximum of 9 hours 50 minutes (9:50) by 10 minutes at a time.

In the example below: To watch a program before/after 2 hours 50 minutes from the present position, in either direction.

1 Call up "TIME SEARCH" setting

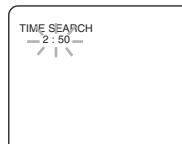
Press [TIME SEARCH].



2 Enter your desired time

Use [PLAY/▲] or [STOP/▼] until your desired time appears.

(Example: "2:50" stands for 2 hours 50 minutes) You can also use [TIME SEARCH].



If you wish to cancel the Time Search at this point, press [MENU].

3 Begin Time Search

By using [REW/◀] or [F.FWD/▶], the unit will rewind or fast forward to the specified point.

The time counts down during the search. When the display shows "0:00", the tape will start playback automatically.

TO CANCEL DURING TIME SEARCH

Use [STOP/EJECT □ △] on the unit or [STOP/▼]. This will delete the selected time.

SPECIAL FEATURES

REAL TIME TAPE COUNTER

This shows the elapsed recording or playback time in hours, minutes, and seconds. (The displayed time will not change on a blank tape or blank portions on the tape.) The “-” indication will appear when the tape has rewound further than “0:00:00” on the tape counter.

AUTO REWIND-EJECT

- When the end of a tape is reached during recording, playback or fast-forward, the tape will automatically rewind to the beginning. After rewinding finishes, the unit will eject the tape and turn itself off.
- This function is operative when Repeat Play is set to [OFF].
- The tape will not auto-rewind during timer recording or One Touch Recording.

RECORDING

Make sure ...

- The unit must be turned on.
- Insert a cassette tape with its erase-prevention tab in place. (If necessary, rewind or fast forward the tape to the point at which you want to begin recording.)

NOTE:

- This unit will ONLY record and view the same channel.

NORMAL RECORDING

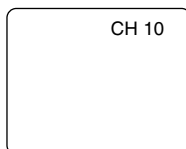
You can ONLY watch the same TV program that is being recorded.

1 Select the channel to be recorded

Use the **Number buttons** or **[CHANNEL ▲/▼]**.

NOTE:

- If the unit is connected to a cable box or satellite box, the unit must be on CH3 or CH4, then the channel to be recorded must be selected on the cable box or satellite box.



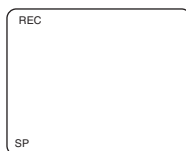
2 Select the tape speed

Press **[SPEED]** to select the desired tape speed (SP/ SLP).



3 Begin recording

Press **[RECORD]**.



4 Stop recording

Press **[STOP/▼]**.

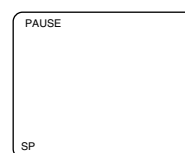
SKIPPING UNWANTED SCENES DURING RECORDING

Press **[PAUSE/STILL II]** to temporarily stop recording.

Use **[PAUSE/STILL II]** or **[RECORD]** to resume recording.

NOTES:

- After 5 minutes, the unit will automatically switch to the Recording mode to prevent tape damage.
- If Closed Caption mode is on, the On-Screen Display will appear for 5 seconds, then disappear.



OTR (One Touch Recording)

This function enables you to set a recording length simply by pressing [REC/OTR] on the unit.

Make sure ...

- The unit must be turned on.
- Insert a cassette tape with its erase-prevention tab in place. (If necessary, rewind or fast forward the tape to the point at which you want to begin recording.)

NOTES:

- You **cannot** start OTR with the remote control.
- Recording starts immediately when [REC/OTR] is pressed.
- When [REC/OTR] is pressed 18 times, the unit returns to the Normal Recording mode.
- To stop the OTR operation, press [STOP/EJECT □ ▲] on the unit or on the remote control.
- To show the remaining time, press [DISPLAY] on the remote control so that "OTR" appears on the TV screen. (It will show up momentarily then disappear.)
- Recording stops when the display shows 0:00.
- Please note that in the SLP mode maximum recording time, assuming the tape is started at the beginning, is 8 hours using T-160 (or 6 hours using T-120).
- If the tape runs out before the end time, the unit will switch to the stop mode immediately, ejects the tape and turns itself off.
- Even if [POWER] is pressed during OTR, the unit continues recording.

1 Select the channel to be recorded

Use the **Number buttons** or [CHANNEL ▲/▼].

NOTE:

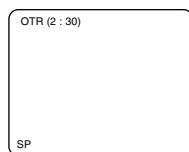
- If the unit is connected to a cable box or satellite box, the unit must be on CH3 or CH4, then the channel to be recorded is selected on the cable box or satellite box.

2 Select the tape speed

Press [SPEED] to select the desired tape speed (SP/SLP).

3 Begin OTR

Press [REC/OTR] on the unit as many times as needed. The recording length will be determined by the number of times you press [REC/OTR]. Each time it is pressed, the recording time will be increased by 30 minutes up to 8 hours.



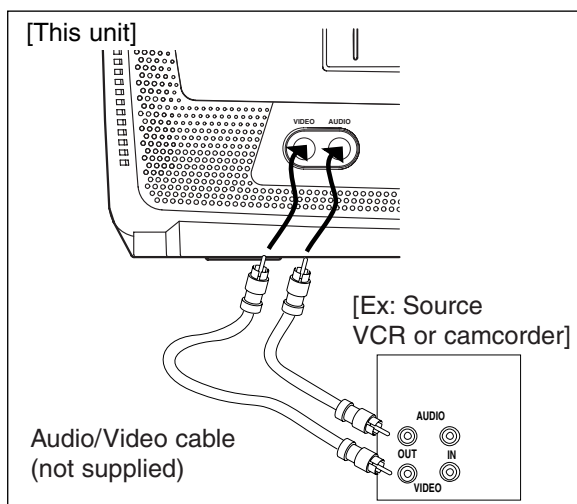
| Time(s) | Display | Recording length |
|----------|---------|--------------------|
| 1 time | | (normal recording) |
| 2 times | 0:30 | 30 minutes |
| 3 times | 1:00 | 60 minutes |
| ↓ | ↓ | ↓ |
| 17 times | 8:00 | 480 minutes |

COPYING A VIDEO CASSETTE (Requires a VCR or camcorder)

You can make copies of video tapes made by friends or relatives for your enjoyment.

WARNING: Unauthorized recordings of copyrighted video tapes may be an infringement of copyright laws.

Connect your unit and a source (playing) VCR using the following diagram.



- 1) Insert a pre-recorded video cassette into the source VCR or camcorder.
- 2) Insert a blank video cassette or one you want to record over, into the unit's cassette compartment.
- 3) Press [SPEED] on remote control for the unit to select the desired recording speed (SP/SLP).
- 4) Use [CHANNEL ▼/▲] on the unit until "AUX" appears on the screen.
- 5) Press [REC/OTR] on the unit.

- 6) Begin playback of the tape in the source VCR or camcorder.

NOTE:

- For best results during copying, use the front panel controls whenever possible. The remote control might affect the source VCR's playback operation.
- 7) To stop copying, press [STOP/EJECT □ ▲] on the unit, then stop the tape on the source VCR or camcorder.

TIMER RECORDING

AUTOMATIC TIMER RECORDING

You may set the unit to start and end a recording while you are away. You can set 8 programs to record on specific days, daily or weekly within a 1 year period.

In the example below, the timer is being set to record:

DATE: July 3rd, 2006
 SETTING TIME: from 7:30PM to 8:50PM
 CHANNEL: CH61
 TAPE SPEED: SP

Make sure ...

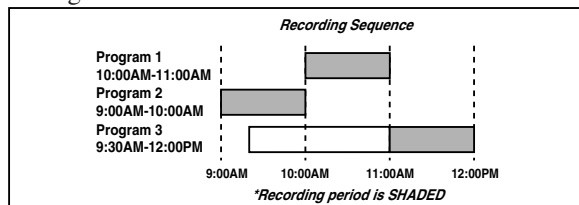
- If a cable box or satellite box is connected with the unit you will be limited to record only one channel, and the channel selector on the unit must be selected to the output channel of the boxes CH3 or CH4 and then the actual channel to be recorded must be selected on the boxes.
- Clock must be set to the correct time and date before setting the timer.
- The unit must be turned on to program it.
- Insert a cassette tape with its erase-prevention tab in place. (If necessary, rewind or fast forward the tape to the point at which you want to begin recording.)
- The channel you want to record is properly set in advance. (Refer to page 11.)

Avoid overlap of programs ...

There is a chance that a program will not be recorded, when programs overlap;

- The program with an earlier start has priority.
- Once the earliest program finishes, the overlapping programs will begin recording in sequence.
- When the starting time is the same, the program set on the highest position in the program list has priority.
- The illustration below demonstrates the sequence of recordings.

Program 1 10:00AM - 11:00AM
 Program 2 9:00AM - 10:00AM
 Program 3 9:30AM - 12:00PM



1 Select "TIMER PROGRAMMING"

Press [MENU].

Confirm "TIMER PROGRAMMING" is pointed by pressing [PLAY/▲], then press [F.FWD/▶].

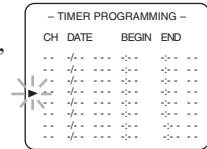
- If you have not yet set the clock, "MANUAL CLOCK SET" appears. If so, follow steps 3 to 8 on pages 12 and 13. Then set the timer recording.

```

    - MENU -
    > TIMER PROGRAMMING
    PICTURE CONTROL
    SETTING CLOCK
    CHANNEL SET UP
    USER'S SET UP
    V-CHIP SET UP
    LANGUAGE [ENGLISH]
    CAPTION [OFF]
    ZERO RETURN
    TIME SEARCH
    
```

2 Select your desired program position (1 to 8)

Use [PLAY/▲] or [STOP/▼] to select the desired program position, then press [F.FWD/▶].

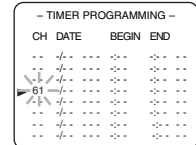


3 Set the channel number

Use [PLAY/▲] or [STOP/▼] until the desired channel number appears (Example: CH61), then press [F.FWD/▶].

NOTE:

- If the unit is connected to a cable box or satellite box, the unit must be on CH3 or CH4, then the channel to be recorded is selected on the cable box or satellite box.

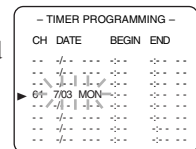


4 Select once, everyday or weekly recording

For once recording :

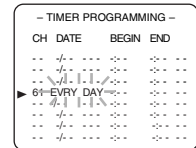
Press [PLAY/▲] until the desired date appears. (Example: "7/03" for July 3rd)

Then press [F.FWD/▶].



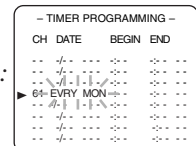
For everyday recording : To record a TV program at the same time on the same channel everyday. (Example: Monday through Sunday)

Press [STOP/▼] until "EVERY DAY" appears, then press [F.FWD/▶].



For weekly recording : To record a TV program at the same time on the same channel every week. (Example: every Monday)

Press [STOP/▼] until "EVERY" and your desired day of the week appear together, then press [F.FWD/▶].

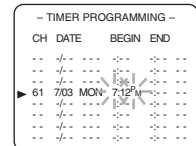


5 Set beginning hour

Use [PLAY/▲] or [STOP/▼] until the desired hour appears.

(Example: "7, PM" for 7:30PM)

Then press [F.FWD/▶].

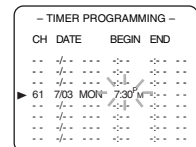


6 Set beginning minute

Use [PLAY/▲] or [STOP/▼] until the desired minute appears.

(Example: "30" for 7:30PM)

Then press [F.FWD/▶].

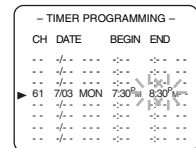


7 Set end hour

Use [PLAY/▲] or [STOP/▼] until the desired hour appears.

(Example: "8, PM" for 8:50PM)

Then press [F.FWD/▶].



8 Set end minute

Use [PLAY/▲] or [STOP/▼] until the desired minute appears. (Example: "50" for 8:50PM) Then press [F.FWD/▶].

| - TIMER PROGRAMMING - | | | |
|-----------------------|---------|---------|---------|
| CH | DATE | BEGIN | END |
| .. | .. | .. | .. |
| .. | .. | .. | .. |
| ▶ 61 | 703 MON | 7:30 PM | 8:50 PM |
| .. | .. | .. | .. |
| .. | .. | .. | .. |
| .. | .. | .. | .. |
| .. | .. | .. | .. |
| .. | .. | .. | .. |

9 Set the tape speed

Use [PLAY/▲] or [STOP/▼] until the desired tape speed appears. (Example: "SP")

| - TIMER PROGRAMMING - | | | |
|-----------------------|---------|---------|---------|
| CH | DATE | BEGIN | END |
| .. | .. | .. | .. |
| .. | .. | .. | .. |
| ▶ 61 | 703 MON | 7:30 PM | 8:50 PM |
| .. | .. | .. | .. |
| .. | .. | .. | .. |
| .. | .. | .. | .. |
| .. | .. | .. | .. |
| .. | .. | .. | .. |

10 Finish setting the program

Press [F.FWD/▶] to complete setting.

- To set another program, repeat steps 2 to 10.
- Press [MENU] to exit the menu.

11 Set the timer

Press [POWER] to set automatic timer recording. The recording indicator lights up.

- You must turn off the unit to activate automatic timer recording. If power is not turned off and you continue watching TV, "TIMER REC STANDBY" starts flashing on the TV screen 2 minutes before the programmed start time.
- If the erase-prevention tab is removed, the cassette will be ejected when [POWER] is pressed to off.

TIMER PROGRAM EXTENSION

To shift the time schedule of an automatic timer recording.

- 1) Press [POWER].
- 2) Repeat step 1 on page 23.
- 3) Press [RECORD] and select the desired program using [PLAY/▲] or [STOP/▼].
- 4) Press [RECORD] again.

Each additional push will shift forward the begin/end time for recording by 10 minutes. When the recording is already in progress, each additional push will shift forward the end time only. If you want to cancel while setting, press [PAUSE/STILL II] on the remote control. The recording time returns to the original time.

NOTE:

- When you shift forward the time schedule during recording, the recording speed will automatically be set to the SLP mode.
- 5) Use [REW/◀] or [F.FWD/▶] to exit the setting menu. Then press [MENU] to return to original mode.

TO CORRECT A PROGRAM

- While setting a program; press [REW/◀] to go back one step and enter the correct numbers using [PLAY/▲] or [STOP/▼].
- After setting a program;
 - 1) Press [POWER].
 - 2) Repeat steps 1 to 2 on page 23.
 - 3) Press [F.FWD/▶] (or press [REW/◀] to go back one step) until the part you want to correct begins flashing, then make the changes using [PLAY/▲] or [STOP/▼].
 - 4) Press [POWER] to set automatic timer recording.

EN

TO CANCEL AN AUTOMATIC TIMER RECORDING

- 1) Press [POWER].
- 2) If recording is in progress, press [STOP/EJECT □ △] on the unit.
- 3) Repeat steps 1 to 2 on page 23 and select a program you want to cancel.
- 4) Press [T-PROG. CLEAR].
- 5) Press [MENU] to return to TV mode.

TO CONFIRM THE TIMER SETTING

- 1) Press [POWER] so that the Recording indicator light goes off.
- 2) Press [MENU].
- 3) Confirm "TIMER PROGRAMMING" is selected.
- 4) Press [F.FWD/▶]. The details of programs appear on the TV screen.
- 5) Press [MENU] to return to TV mode.

NOTES:

- The display will not be turned on automatically at the time the programmed recording begins.
- If the tape runs out before the end time, the unit will switch to the stop mode immediately and the tape will be ejected.

AUTO RETURN

With this feature, after timer recording is finished, the beginning of the recorded program(s) can be searched for automatically.

1 Select "USER'S SET UP"

Press [MENU].

Use [PLAY/▲] or [STOP/▼] to point to "USER'S SET UP", then press [F.FWD/▶].

| - MENU - | |
|--------------------|--|
| TIMER PROGRAMMING | |
| PICTURE CONTROL | |
| SETTING CLOCK | |
| CHANNEL SET UP | |
| ▶ USER'S SET UP | |
| V-CHIP SET UP | |
| LANGUAGE [ENGLISH] | |
| CAPTION [OFF] | |
| ZERO RETURN | |
| TIME SEARCH | |

2 Set "AUTO RETURN" to [ON]

Use [PLAY/▲] or [STOP/▼] to point to "AUTO RETURN", then use [REW/◀] or [F.FWD/▶] until [ON] appears.

| - USER'S SET UP - | |
|-------------------|-------|
| RENTAL | |
| REPEAT PLAY | [OFF] |
| ▶ AUTO RETURN | [ON] |

3 Auto Return will begin

When all the timer recordings are completed, the unit will rewind to the beginning of the recorded program(s).

NOTE:

- If you press [POWER] while tape is rewinding, the Auto Return will stop.

4 Watch the recorded program

Press [PLAY/▲].

TO CANCEL THE AUTO RETURN MODE

Repeat steps 1 to 2 and select [OFF] using [REW/◀] or [F.FWD/▶].

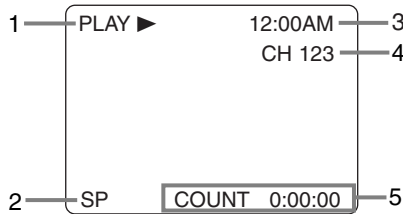
Even if there is a power failure of any kind, the unit will retain its memory for this feature.

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ON SCREEN DISPLAY

STATUS DISPLAY

On screen display examples are shown below.



1. VCR status

Displays the current VCR motion:
PLAY / STOP / REC / OTR / PAUSE / FF / REW

2. Tape speed (during recording)

Displays the tape speed: SP / SLP

3. Clock

4. Channel number (in TV mode)

Displays the current channel number.
“AUX” is displayed in external input mode.

5. Tape counter (during playback or recording)

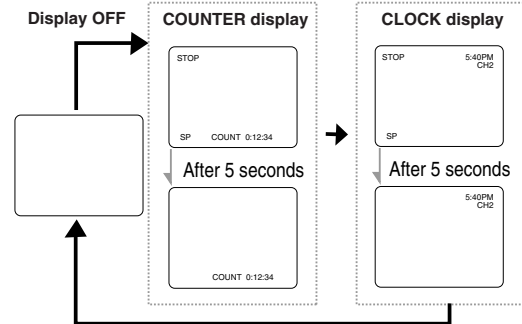
Shows the elapsed recording or playback time.
(Not available for a blank tape or blank portions on the tape.) You can reset the counter by pressing [COUNTER RESET].

CHECKING THE STATUS

While receiving a broadcast or playing a VHS tape, you can check the status displayed on the screen by pressing [DISPLAY]. The display will change as shown below each time you press [DISPLAY].

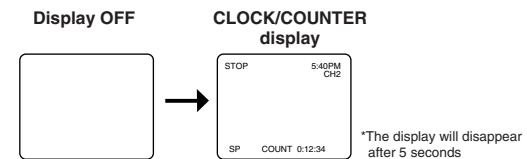
WHEN THE CLOSED CAPTION IS OFF

The display switches among VCR counter and clock.



WHEN THE CLOSED CAPTION IS ON

The CLOCK/COUNTER display appears by pressing [DISPLAY].



CABLE CHANNEL DESIGNATIONS

If you subscribe to cable TV, the channels are displayed as 1-125. Cable companies often designate channels with letters or letter-number combinations. Please check with your local cable company. The following is a chart of common cable channel designations.

| | | | | | | | | | | | | | | | |
|--------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| CATV channel | 5A | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | A | B |
| TV Display | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| CATV channel | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q |
| TV Display | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| CATV channel | R | S | T | U | V | W | W+1 | W+2 | W+3 | W+4 | W+5 | W+6 | W+7 | W+8 | W+9 |
| TV Display | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 |
| CATV channel | W+10 | W+11 | W+12 | W+13 | W+14 | W+15 | W+16 | W+17 | W+18 | W+19 | W+20 | W+21 | W+22 | W+23 | W+24 |
| TV Display | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| CATV channel | W+25 | W+26 | W+27 | W+28 | W+29 | W+30 | W+31 | W+32 | W+33 | W+34 | W+35 | W+36 | W+37 | W+38 | W+39 |
| TV Display | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 |
| CATV channel | W+40 | W+41 | W+42 | W+43 | W+44 | W+45 | W+46 | W+47 | W+48 | W+49 | W+50 | W+51 | W+52 | W+53 | W+54 |
| TV Display | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 |
| CATV channel | W+55 | W+56 | W+57 | W+58 | A-5 | A-4 | A-3 | A-2 | A-1 | W+59 | W+60 | W+61 | W+62 | W+63 | W+64 |
| TV Display | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 | 105 |
| CATV channel | W+65 | W+66 | W+67 | W+68 | W+69 | W+70 | W+71 | W+72 | W+73 | W+74 | W+75 | W+76 | W+77 | W+78 | W+79 |
| TV Display | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 |
| CATV channel | W+80 | W+81 | W+82 | W+83 | W+84 | | | | | | | | | | |
| TV Display | 121 | 122 | 123 | 124 | 125 | | | | | | | | | | |

TROUBLESHOOTING GUIDE

If you have followed the instructions contained in this manual and have difficulty in operating your unit, locate the **PROBLEM** in the left column below. Check the corresponding **CORRECTIVE ACTION** column to remedy the problem.

| PROBLEM | CORRECTIVE ACTION |
|---|---|
| No power. | <ul style="list-style-type: none"> • Make sure the AC cord is connected to an AC outlet. • Make sure the power is turned on. |
| No picture or sound. | <ul style="list-style-type: none"> • Make sure the AC cord is connected to an AC outlet. • Check antenna connection. • Let the unit program its tuner memory. |
| No picture or poor picture on the unit. | <ul style="list-style-type: none"> • Adjust direction or replace antenna. • Adjust picture controls. • Check for broken pin of the antenna cable. |
| No sound or poor sound. | <ul style="list-style-type: none"> • Adjust volume control on remote control or main unit. • Press [MUTE] to restore sound. |
| Timer recording is not possible. | <ul style="list-style-type: none"> • Make sure the timer recording is set correctly. • Make sure the power is off. • Make sure the unit's clock is set correctly. |
| Cannot go into Record mode. | <ul style="list-style-type: none"> • Make sure the tape has an erase-prevention tab. If need, cover the hole with plastic tape. |
| Playback picture is partially noisy. | <ul style="list-style-type: none"> • Adjust tracking control for a better picture using [CHANNEL ▲/▼]. |
| No picture but the audio is OK in playback. | <ul style="list-style-type: none"> • Head cleaning may be necessary. Refer to "AUTO HEAD CLEANING" on page 27. |
| No operation by infrared remote control. | <ul style="list-style-type: none"> • Check if the batteries are weak or inserted incorrectly. Replace weak batteries and insert with their polarities (+/- signs) as indicated. • Aim the remote control at the remote sensor and operate within 23 feet (7 m) of the unit. • Remove all obstacles to clear the path of the infrared signal. • Refer to "IR SIGNAL CHECK" on page 8. • Select the correct mode to operate by pressing [CHANNEL ▲/▼]. • The operable range from the unit is 10 feet (3m) within 15°. |
| Video or color fades in and out when making a copy of a video tape. | <ul style="list-style-type: none"> • You can not copy a copyrighted video tape. You are experiencing copy guard protection. |
| Different color marks on screen. | <ul style="list-style-type: none"> • Magnetism from nearby appliances and geomagnetism might affect the color of the TV picture. Move the unit away from the appliances, the unit can repair itself automatically. If you want to repair immediately, unplug the power cord, then plug it in again 30 minutes or so later. This automatically resets the unit. |

| CLOSED CAPTION PROBLEM | POSSIBLE REMEDY |
|--|---|
| Misspelling in captions. | <ul style="list-style-type: none"> • Error committed by the closed captioning production company. Possible in a live broadcast. Not in case of a prerecorded program. |
| Text is not shown in its entirety or a delay occurs from what is being said. | <ul style="list-style-type: none"> • A few seconds of delay is common for live broadcast. • Display capacity may not exceed 220 words per minute. If a dialogue exceeds that rate, selective editing is used to insure that the captions remain up-to-date with the current TV screen dialogue. |
| Captions scrambled with white boxes. | <ul style="list-style-type: none"> • Caused by interferences of building, power lines, thunderstorms, etc. |
| No captions in a program which must contain closed caption. | <ul style="list-style-type: none"> • The broadcast may use a time compression process to speed up the program. The decoder cannot read the compressed information and captions will be lost. |
| No captions in a prerecorded videotape which indicated closed captions included. | <ul style="list-style-type: none"> • Possibility of a illegal copy or an erroneous copying process accidentally performed by the fabricator. |
| Black box in the TV screen. | <ul style="list-style-type: none"> • You are in TEXT mode. Select a CAPTION mode ([CAPTION 1], [CAPTION 2]) or Caption [OFF]. |

SPECIFICATIONS

GENERAL SPECIFICATIONS

| | |
|-------------------------|--|
| CRT : | 13 inch in-line gun, 90° deflection tube |
| Television system : | NTSC-M |
| Closed caption system : | §15.119/FCC |
| Video Heads : | Rotary two-head |
| Tape width : | 1/2 inch |
| Tape speed | |
| SP : | 33.40mm/sec. |
| LP : | 16.67mm/sec. |
| SLP : | 11.12mm/sec. |
| Tuner channel | |
| TV VHF Low : | #2~#6 |
| TV VHF High : | #7~#13 |
| TV UHF : | #14~#69 |
| CATV | |
| VHF : | 5A |
| MID band : | A5~A1, A~I |
| SUPER band : | J~W |
| HYPER band : | W+1~W+84 |
| Terminals | |
| Antenna input : | VHF/UHF 75 ohms unbalanced |
| Video input : | RCA connector × 1 |
| Audio input : | RCA connector × 1 |
| Earphone : | 1/8" monaural (3.5 mm) |

ELECTRICAL SPECIFICATIONS

| | |
|---------------------|----------------|
| Video input level : | 0.5~2.0Vp-p |
| Audio input level : | -15dBs |
| Video S/N ratio : | More than 46dB |
| Audio S/N ratio : | More than 43dB |

OTHER SPECIFICATIONS

| | |
|---------------------|---------------------|
| Power requirement : | AC 120V/60Hz |
| Power consumption : | 60W |
| Dimensions : | H :15-5/16" (389mm) |
| | W :14-7/16" (367mm) |
| | D :14-7/8" (377mm) |
| Weight : | 23.1lbs. (10.5kg) |

- **Designs and specifications are subject to change without notice.**
- **If there is a discrepancy between languages, the default language will be English.**

MAINTENANCE

CABINET CLEANING

- Wipe the front panel and other exterior surfaces of the unit with a soft cloth immersed in lukewarm water and wrung dry.
- Never use a solvent or alcohol. Do not spray insecticide liquid near the unit. Such chemicals may cause damage and discoloration to the exposed surfaces.

AUTO HEAD CLEANING

- Automatically cleans video heads as you insert or remove a cassette, so you can see a clear picture.
- Playback picture may become blurred or interrupted while the TV program reception is clear. Dirt accumulated on the video heads after long periods of use, or the usage of rental or worn tapes can cause this problem.

If a streaky or snowy picture appears during playback, the video heads in your unit may need to be cleaned.

1. Please visit your local Audio/Video store and purchase a good quality VHS Video Head Cleaner.
2. If a Video Head Cleaner does not solve the problem, please call our help line mentioned on the front page, to locate an Authorized Service Center.

NOTES:

- Remember to read the instructions included with the video head cleaner before use.
- Clean video heads only when problems occur.

SERVICING

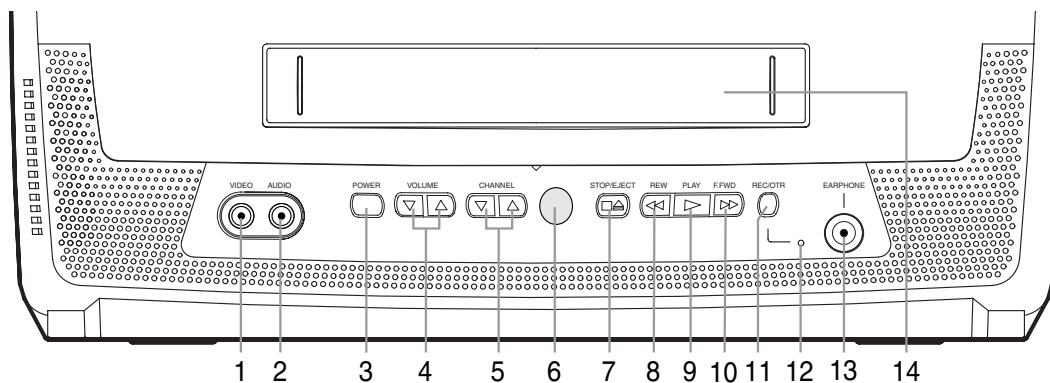
- Should your unit become inoperative, do not try to correct the problem by yourself. There are no user-serviceable parts inside. Turn off, unplug the power cord and please call our help line mentioned on the front page to locate an Authorized Service Center.

CONTROLES DE OPERACIÓN Y SUS FUNCIONES

NOTA:

No recomendamos utilizar mandos a distancia universales. No todas las funciones pueden ser controladas mediante un mando a distancia universal. Si decide utilizar un mando a distancia universal con esta unidad, tenga en cuenta que con el número de código dado tal vez no se pueda controlar la unidad. En este caso, póngase en contacto con el fabricante del mando a distancia universal.

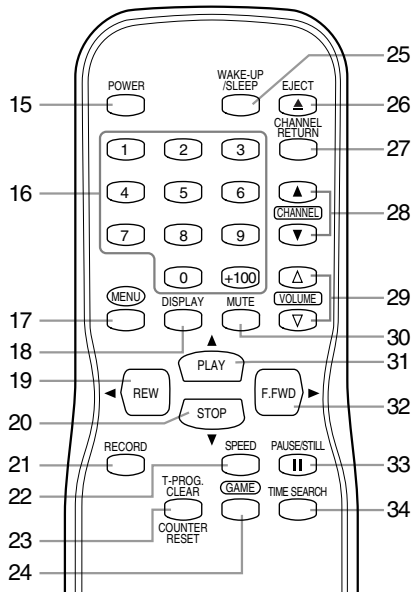
- PANEL DE CONTROL -



- 1 Toma de entrada VIDEO**– Conectela a la toma de salida de video de su videocámara u otra videograbadora.
- 2 Toma de entrada AUDIO**– Conectela a la toma de salida de audio de su equipo de audio, videocámara u otra videograbadora.
- 3 Botón POWER**– Presione para encender y apagar la unidad. Presione para activar la grabación con temporizador.
- 4 Botones VOLUME** ▽/△– Ajustan el nivel del volumen.
- 5 Botones CHANNEL** ▽/△– Presione para seleccionar los canales deseados para ver o grabar.
Función de seguimiento– Presione para minimizar el ruido de video (líneas o puntos en la pantalla) durante la reproducción.
- 6 Ventanilla del sensor de mando a distancia**– Recibe las señales infrarrojas procedentes del mando a distancia.
- 7 Botón STOP/EJECT** □ △ – Presione para parar el movimiento de la cinta. Presione en el modo de parada para expulsar el casete de la unidad.

- 8 Botón REW** ◀◀ – Presione para rebobinar la cinta, o para ver la imagen en retroceso rápido durante el modo de reproducción. (Búsqueda con rebobinado)
- 9 Botón PLAY** ▶ – Presione para iniciar la reproducción.
- 10 Botón F.FWD** ▶▶ – Presione para avanzar rápidamente la cinta, o para ver la imagen en avance rápido durante el modo de reproducción. (Búsqueda con avance rápido)
- 11 Botón REC/OTR**– Presione para iniciar la grabación manual. Presione repetidamente para empezar la grabación instantánea (OTR).
- 12 Indicador de grabación**– Parpadea durante la grabación.
Se enciende en el modo de espera de la grabación con temporizador.
- 13 Toma EARPHONE**– Para conectar los auriculares (no suministrados) y escuchar en privado. La toma es mono y tiene un tamaño de 1/8" (3,5 mm).
- 14 Compartimiento del casete**

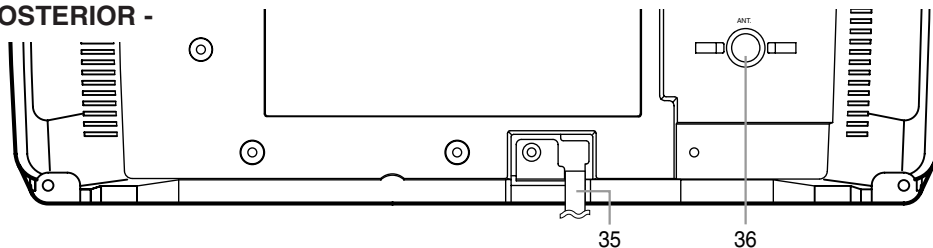
- MANDO A DISTANCIA -



- 15 **Botón POWER**– Presione para encender y apagar la unidad. Presione para activar la grabación con temporizador.
- 16 **Botones numéricos**– Presione para seleccionar los canales deseados para ver ó grabar. Para seleccionar canales del 1 al 9, presione primero el botón [0] y después el botón [1] a [9]. **Botón +100**– Cuando seleccione canales de televisión por cable cuyo número sea superior al 99, presione primero este botón, y después presione los dos últimos dígitos. (Para seleccionar el canal 125, presione primero el botón [+100] y luego [2] y [5].)
- 17 **Botón MENU**– Presione para entrar o salir del menú de ajustes.
- 18 **Botón DISPLAY**– Presione para visualizar el contador actual o el número del canal actual y la del televisor.
- 19 **Botón REW / ◀ (cursor)**–
 - Presione para rebobinar la cinta, o para ver la imagen en retroceso rápido durante el modo de reproducción. (Búsqueda con rebobinado)
 - Presione para seleccionar un modo desde un menú particular.
- 20 **Botón STOP / ▼ (cursor)**–
 - Presione para parar la cinta.

- Presione para seleccionar un modo o cifra en el menú numéricos de ajustes.
- 21 **Botón RECORD**– Presione para iniciar la grabación manual.
- 22 **Botón SPEED**– Presione para elegir la velocidad de grabación deseada: SP/SLP.
- 23 **Botón T-PROG. CLEAR**– Presione para cancelar un programa de temporizador. **Botón COUNTER RESET**– Presione para reponer el contador a 0:00:00.
- 24 **Botón GAME**– Presione para establecer modo Game (juego) y el modo de entrada externa al mismo tiempo.
- 25 **Botón WAKE-UP/SLEEP**– Ajusta el temporizador para despertar/dormir.
- 26 **Botón EJECT ▲**– Presione en el modo de parada para retirar el casete de la unidad.
- 27 **Botón CHANNEL RETURN**– Presione para volver al canal anterior. Presione para volver al canal actual.
- 28 **Botones CHANNEL ▲/▼**– Presione para seleccionar los canales deseados para ver o grabar. **Función de seguimiento**– Presione para minimizar el ruido de video (líneas o puntos en la pantalla) durante la reproducción.
- 29 **Botones VOLUME ▲/▼**– Ajustan el nivel del volumen.
- 30 **Botón MUTE**– Silencia el sonido. Presione de nuevo para recuperar el sonido.
- 31 **Botón PLAY / ▲ (cursor)**–
 - Presione para iniciar la reproducción.
 - Presione para seleccionar un modo o cifra del menú de ajustes.
- 32 **Botón F.FWD / ▶ (cursor)**–
 - Presione para avanzar rápidamente la cinta, o para ver la imagen en avance rápido durante el modo de reproducción. (Búsqueda con avance rápido)
 - Presione para determinar su selección y vaya al paso siguiente en el menú de ajustes.
- 33 **Botón PAUSE/STILL II**– Presione para detener temporalmente la cinta durante la grabación o para ver una imagen fija durante la reproducción.
- 34 **Botón TIME SEARCH**– Presione para activar el modo de búsqueda con tiempo.

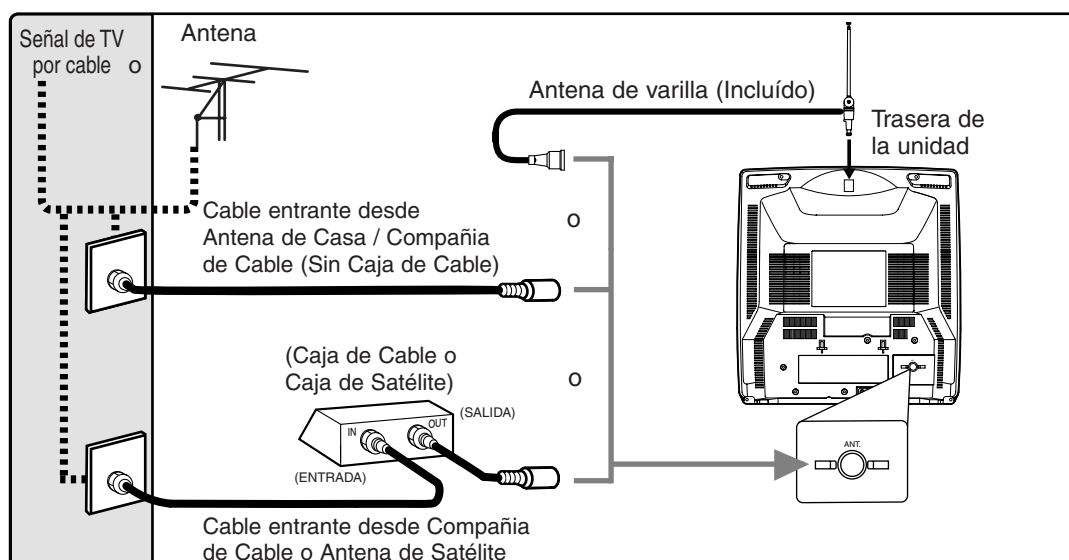
- VISTA POSTERIOR -



- 35 **Cable de alimentación**– Conecte a la toma de CA estándar (120V/60Hz).
- 36 **Toma ANT.**– Conecte a una antena, sistema de televisión por cable o sistema de satélite.

PREPARACIÓN PARA LA UTILIZACIÓN

CONEXIONES DE ANTENA/CABLE



FUNCIONES Y AJUSTES

PARA MIRAR UN PROGRAMA DE TV

1 Enchufe el cable eléctrico

Enchufe el cable eléctrico de la unidad en un tomacorriente de CA del hogar.

NOTA:

- Si aparecen números en la esquina de la pantalla, presione **[POWER]** sin desenchufar el cable eléctrico.

2 Encienda la unidad

Presione **[POWER]** para encender la unidad.

3 Seleccione el número de canal

Presione **[CHANNEL ▲/▼]** o los botones numéricos para seleccionar su número de canal deseado.

Nota para el uso de los botones numéricos:

- Debe colocar un cero antes de los números de canal de una sola cifra (por ejemplo: 02, 03, 04, etc.).
- Cuando seleccione canales de cable de más de 99, presione primero **[+100]** y después las dos últimas cifras. (Ejemplo: para seleccionar el canal 125, primero presione **[+100]** y después presione **[2]** y **[5]**.)

4 Ajuste el sonido

Presione **[VOLUME ▲/▼]** para ajustar el volumen.
Presione **[MUTE]** para silenciar instantáneamente el sonido.
Presione nuevamente para recuperar el nivel de sonido anterior.

PARA VER CANALES DE CABLE O SATELITE

- Si la unidad está conectada a una caja de cable o caja de satélite, presione **[CHANNEL ▲/▼]** para seleccionar CA3 o CA4 de acuerdo con el ajuste de canal de salida del equipo y seleccione el canal deseado en el equipo.

ES

PARA VER UNA ENTRADA EXTERNA

- Cuando se conecta un equipo externo en las tomas de entrada AUDIO/VIDEO frontales, presione **[CHANNEL ▲/▼]** repetidamente hasta que aparezca "AUX" en la pantalla.

AJUSTE DEL RELOJ

AJUSTE MANUAL DEL RELOJ

Asegúrese ...

- La unidad debe estar encendida.

En el siguiente ejemplo, el reloj debe estar en:

| | |
|----------------|-----------------|
| FECHA | 4 de mayo, 2006 |
| HORA DE AJUSTE | 5:40PM |

1 Seleccione "AJUSTE RELOJ"

Presione **[MENU]**.

Presione **[PLAY/▲]** o **[STOP/▼]** para seleccionar "AJUSTE RELOJ" y presione **[F.FWD/▶]**.

2 Seleccione "AJUSTE MANUAL RELOJ"

Presione **[PLAY/▲]** o **[STOP/▼]** para seleccionar "AJUSTE MANUAL RELOJ" y presione **[F.FWD/▶]**.

3 Seleccione el mes

Presione **[PLAY/▲]** o **[STOP/▼]** hasta que aparezca el mes deseado. (Ejemplo: Mayo → "05")
Presione **[F.FWD/▶]**.

4 Seleccione el día

Presione **[PLAY/▲]** o **[STOP/▼]** hasta que aparezca el día deseado. (Ejemplo: 4 → "04")
Presione **[F.FWD/▶]**.

5 Seleccione el año

Presione [PLAY/▲] o [STOP/▼] hasta que aparezca el año deseado. (Ejemplo: "2006")

Presione [F.FWD/▶].

6 Seleccione la hora

Presione [PLAY/▲] o [STOP/▼] hasta que aparezca la hora deseada. (Ejemplo: "05", "PM")

Presione [F.FWD/▶].

7 Seleccione los minutos

Presione [PLAY/▲] o [STOP/▼] hasta que aparezcan los minutos deseados. (Ejemplo: "40")

8 Haga funcionar el reloj

Presione [MENU].

Aunque no aparezcan los segundos, empezará a contar desde 00 cuando presione [MENU]. Utilice esta característica para sincronizar el reloj con la hora real.

NOTA:

- Cuando desenchufe el cable de CA o si hay un corte eléctrico de más de 3 segundos, puede ser necesario reajustar el reloj.

IDIOMA DEL MENÚ

1 Seleccione "LANGUAGE"

Presione [MENU].

Presione [PLAY/▲] o [STOP/▼] para seleccionar al "LANGUAGE".

2 Seleccione "ENGLISH", "ESPAÑOL" o "FRANÇAIS"

Presione [REW/◀] o [F.FWD/▶] repetidamente para seleccionar "ENGLISH" = inglés, "ESPAÑOL" o "FRANÇAIS" = francés.

3 Salga del modo de idioma

Presione [MENU] para volver al modo de TV.

NOTAS:

- Esta función afecta sólo el idioma en el menú de la pantalla y no la fuente de audio.
- Si por alguna razón, el menú está en inglés o francés, presione [MENU], presione [PLAY/▲] o [STOP/▼] para seleccionar al "LANGUAGE [ENGLISH]" o "LANGAGE [FRANÇAIS]" y presione [F.FWD/▶] repetidamente para seleccionar el idioma deseado y presione [MENU].

REPRODUCCION NORMAL

Asegúrese ...

- La unidad debe estar encendida.

1 Inserte una cinta pregrabada.

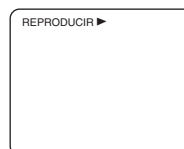
Si la lengüeta para evitar el borrado está rota, la unidad empezará a reproducir automáticamente.

2 Para empezar a reproducir

Presione [PLAY/▲].

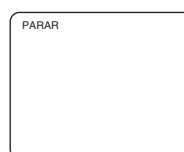
NOTA:

- Si hay un menú activado en la pantalla, [PLAY/▲] no funciona. Presione [MENU] para salir el menú. Después presione [PLAY/▲].



3 Para parar la reproducción

Presione [STOP/▼].



GRABACIÓN NORMAL

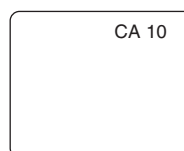
SOLO puede ver el mismo programa de TV que está grabando.

1 Seleccione el canal a grabar

Presione los botones numéricos o [CHANNEL ▲/▼].

NOTA:

- Si la unidad está conectada a una caja de cable o caja de satélite, la unidad debe estar en el CA3 o CA4 y el canal a grabar debe seleccionarse en la caja de cable o caja de satélite.



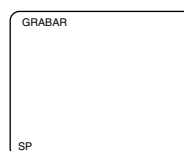
2 Seleccione la velocidad de la cinta

Presione [SPEED] para seleccionar la velocidad deseada de la cinta (SP/SLP).



3 Empiece a grabar

Presione [RECORD].



4 Pare la grabación

Presione [STOP/▼].

FUNAI CORPORATION LIMITED WARRANTY

FUNAI CORP. will repair this product, free of charge in the USA in the event of defect in materials or workmanship as follows:

DURATION:

PARTS: FUNAI CORP. will provide parts to replace defective parts without charge for one (1) year from the date of original retail purchase. Two (2) years for Picture Tube. Certain parts are excluded from this warranty.

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

LIMITS AND EXCLUSIONS:

THIS WARRANTY IS EXTENDED ONLY TO THE ORIGINAL RETAIL PURCHASER. A PURCHASE RECEIPT OR OTHER PROOF OF ORIGINAL RETAIL PURCHASE WILL BE REQUIRED TOGETHER WITH THE PRODUCT TO OBTAIN SERVICE UNDER THIS WARRANTY.

This warranty shall not be extended to any other person or transferee.

This warranty is void and of no effect if any serial numbers on the product are altered, replaced, defaced, missing or if service was attempted by an unauthorized service center. This limited warranty does not apply to any product not purchased and used in the United States.

This warranty only covers failures due to defects in material or workmanship which occurs during normal use. It does not cover damage which occurs in shipment, or failures which are caused by repairs, alterations or product not supplied by FUNAI CORP., or damage which results from accident, misuse, abuse, mishandling, misapplication, alteration, faulty installation, improper maintenance, commercial use such as hotel, rental or office use of this product or damage which results from fire, flood, lightning or other acts of God.

THIS WARRANTY DOES NOT COVER PACKING MATERIALS, ANY ACCESSORIES (EXCEPT REMOTE CONTROL), ANY COSMETIC PARTS, COMPLETE ASSEMBLY PARTS, DEMO OR FLOOR MODELS.

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