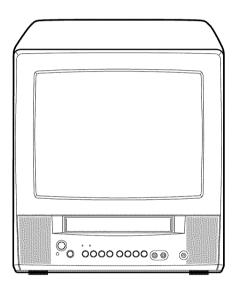
TOSHIBA

TELEVISION/VCR COMBINATION MV13P2



ATTENTION

If you purchase a universal remote control from your local retailer, please contact the remote manufacturer for the required programming code.

TV/CABLE MODE SELECTION

When shipped from the factory, the TV/CABLE selection is set to the "CABLE" (Cable Television) position.

If not using Cable TV, set this selection to the "TV" position.



Before operating the unit, please read this manual thoroughly.





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.



The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

WARNING: 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 (Federal Communications Commission) 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:

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

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance with the FCC (Federal Communications Commission) Rules could void the user's authority to operate this equipment.

COPYRIGHT: It is permissible to record television programs, films, video tapes and other material only in the event that third party copyrights and other rights are not violated.

WARNING: Unauthorized recording of copyrighted television programs, films, video cassettes and other materials may infringe the rights of copyright owners and be contrary to copyright laws.

IMPORTANT SAFEGUARDS

1. READ INSTRUCTIONS

All the safety and operating instructions should be read before the unit is operated.

2. RETAIN INSTRUCTIONS

The safety and operating instructions should be retained for future reference.

3. HEED WARNINGS

All warnings on the unit and in the operating instructions should be adhered to.

4 FOLLOW INSTRUCTIONS

All operating and use instructions should be followed.

5 CLEANING

Unplug this unit from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning the exterior cabinet only.

6. ATTACHMENTS

The manufacturer of this unit does not make any recommendations for attachments, as they may cause hazards

7. WATER AND MOISTURE

Do not use this unit near water. For example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool.

PORTABLE CART WARNING

8. ACCESSORIES

Do not place this unit on an unstable cart, stand, tripod, bracket, or table. The unit may fall, causing serious injury, and serious damage to the unit.

8A. 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.



S3126A

9. VENTILATION

Slots and openings in the cabinet back or bottom are provided for ventilation, and to ensure reliable operation of the unit, and to protect it from overheating. 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 source. 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 SOURCE

This unit should be operated only from the type of power source indicated on the rating plate. 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 respective pages on this Owner's Manual for their 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. Instead of the polarized alternating-current line plug, your unit may be equipped with a 3-wire grounding-type plug (a plug having a third (grounding) pin). This plug will only fit into a grounding-type power outlet. This too, is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet.

Do not defeat the safety purpose of the grounding-type plug.

IMPORTANT SAFEGUARDS (c

(CONTINUED)

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.

13. LIGHTNING

To protect your unit from 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.

14. POWER LINES

An outside antenna system should not be located in the vicinity of overhead power lines, other electric light or power circuits, or where it can fall onto or against 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.

15. OVERLOADING

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

16. OBJECT AND LIQUID ENTRY

Do not push objects through any openings in this unit, as they may touch dangerous voltage points or short out parts that could result in fire or electric shock. Never spill or spray any type of liquid into the unit.

17. OUTDOOR ANTENNA GROUNDING

If an outside antenna or cable system is connected to the unit, be sure the antenna or cable system is grounded to provide some protection against voltage surges and built-up static charges, Section 810 of the National Electrical Code (NEC), ANSI/NFPA 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.

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.

For example:

- a. When the power-supply cord or plug is damaged.
- b. If liquid has been spilled, or objects have fallen into the unit.
- c. If the unit has been exposed to rain or water.
- d. If the unit does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as an 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.
- e. If the unit has been dropped or the cabinet has been damaged.
- f. When the unit exhibits a distinct change in performance, this indicates a need for service.

19. REPLACEMENT PARTS

When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original part.

Unauthorized substitutions may result in fire, electric shock or other hazards.

20. SAFETY CHECK

Upon completion of any service or repairs to this unit, ask the service technician to perform safety checks to determine that the unit is in proper operating condition.

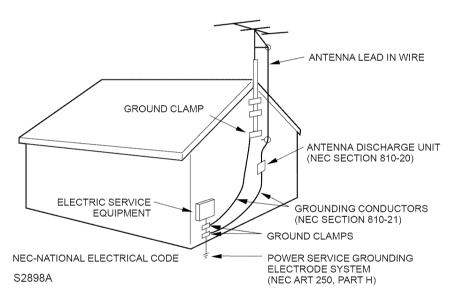
21. HEAT

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

22. NOTE TO CABLE TV SYSTEM INSTALLER

This reminder is provided to call the Cable TV 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.

EXAMPLE OF ANTENNA GROUNDING AS PER THE NATIONAL ELECTRICAL CODE



IMPORTANT RECYCLING INFORMATION

This product uses both Cathode Ray Tube (CRT) and other components that contain lead. In your community there might be regulations that require you to dispose these materials properly under environmental considerations. Please contact your local authorities, or the Electronic Industries Alliance (http://www.eiae.org) for disposal or recycling information.



Color TV With Video Cassette Recorder - Unique space saving design combines a color TV and a video cassette recorder

High Quality Picture Technology - This TV/VCR equipped "HQ" incorporates VHS High Quality technology. A built-in detail enhancer is used to boost the recorded signal and provide picture quality during playback. It is compatible with other VHS video cassette recorders

181 Channel Tuner - Receives standard VHF and UHF broadcast channels and up to 113 cable channels. The actual number of channels received depends upon channel reception in your area or your cable system.

Closed Caption Decoder With Full Text Mode - Displays text captions or full screen text on the screen for hearing impaired viewers.

8-Programs/1-Month Programmable Timer With Everyday/Every Week Capability - The built-in timer allows automatic absentee recording of up to 8 TV programs within 1 month. It is also possible to record a program which is broadcast at the same time everyday or every week.

Starting Setup - It leads you the Language selection, TV/CABLE selection, Auto channel memory and Auto clock setting automatically.

Automatic Clock Set - Once your TV/VCR is plugged into the AC outlet, it automatically sets the correct date and time.

On-Screen TV Display And VCR Programming - When you select a channel or make other changes, the TV will show an indicator on the screen for a few seconds. Timer recording can be programmed and confirmed on the screen.

Picture Adjustments Using The Remote Control - The On-Screen display allows remote control adjustment of BRIGHT-NESS, CONTRAST, COLOR, TINT and SHARPNESS.

Picture Preference - You can select four picture modes (Sports, Standard, Movie and Memory).

Automatic Playback/Rewind-Stop-Eject - When loading a cassette tape without the erase prevention tab, this TV/ VCR will automatically play back the cassette tape at the correct speed. When a tape reaches its end during play-back, recording (except during OTR and Timer Record) and fast forward, it will automatically stop, rewind, stop and eject the tape.

Programmable ON/OFF Timer - Allows you to automatically turn on or off the TV/VCR at a set time.

Programmable TV Sleep Timer - Operable from the remote control, the TV can be programmed up to 120 minutes to turn off automatically.

Automatic Repeat Play System - When Auto Repeat option is turned on, the TV/VCR will automatically play back the same cassette tape repeatedly.

One-touch Timer Recording (OTR) - Simply by pressing the REC buttons, the TV/VCR can be programmed for up to 6 hours of recording with an immediate start.

Front Audio/Video Input Jacks - Input jacks for other video device or playback purpose.

Skip Search - When the SKIP SEARCH button on the remote control is pressed during playback, the TV/VCR will automatically search forward in 30 second increments to a maximum of 3 minutes with each press of the SKIP SEARCH button, and then return to normal playback.

Index Search - Enables you to locate the beginning of any recording made on the VCR.

- 2 Speed Picture Search 3 or 5 times normal speed in SP mode (9X or 15X in SLP).
- 2 Speed Record Playback Records and plays two tape speeds (SP, SLP).

Real Time Tape Counter With Zero Return - The counter displays the real tape time and the zero return can be used to return the tape to a preselected position (00:00:00) while the counter can be used to locate programs.

Digital Auto Tracking - Automatically adjusts tracking during playback for the best possible picture.

On-Screen 3 Language Display - You can select one of 3 languages, English, Spanish or French for on-screen programming.

V-Chip - The V-Chip function can read the rating of a TV program or movie content if the program is encoded with this information. V-Chip will allow you to set a restriction level.

TV Monitor - When the TV MONITOR button on the remote control is pressed during playback, the TV channel selected on the TV/VCR can be viewed.





Please read the descriptions and operating procedures contained in this Owner's Manual prior to operating your new TV/VCR.



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SAFETY PRECAUTIONS

MOISTURE CONDENSATION

DO NOT OPERATE ANY FUNCTIONS ON THIS UNIT FOR AT LEAST THREE HOURS WHEN MOISTURE IN THE AIR CONDENSES ON IT. LET THE UNIT STAND WITH POWER ON (SEE BELOW).

■ WHAT IS MOISTURE CONDENSATION?

When a cold liquid is poured into a glass, for example, water vapor in the air will condense on the surface of the glass. This is called moisture condensation.

■ MOISTURE WILL CONDENSE ON THE UNIT IN THE FOLLOWING CASES;

- When you move the unit from a cold to a warm place.
- · After heating a cold room or under extremely humid conditions.

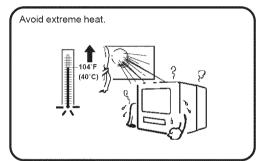
■ WHEN YOU EXPERIENCE THE ABOVE CONDITIONS,
Plug the power cord into an AC outlet, press the POWER button to turn on and leave the unit at room temperature until moisture condensation disappears. Depending on the surrounding conditions, this may take about three hours.





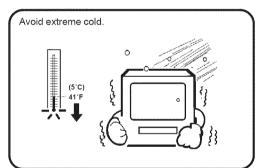
If you cause a static discharge when touching the unit, and the unit fails to function, simply unplug the unit from the wall outlet, wait a few minutes and plug it back in. The unit should return to normal operation.





Do not place the unit on or near appliances which may cause electromagnetic interference (e.g. speakers, etc). Doing so may cause erratic operation of the unit including picture and/or sound distortion or noise.





Avoid extreme moisture and dust.



The ventilation holes prevent overheating. Do not block or cover these holes. Especially avoid covering the holes with soft materials such as cloth





Do not insert fingers or any other objects into the cassette loading slot. Do not spray cleaner or wax directly on the unit or use forced air to remove dust.



Avoid places subject to strong vibration. Use in a horizontal (flat) position only.



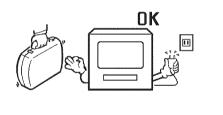
Keep the unit away from flower vases, sinks, etc. If liquids should be spilled into the unit, serious damage will result. If you spill any liquids into the unit, unplug the AC power cord immediately and consult qualified service personnel before attempt-



When you finish operating the unit, always unload the cassette and turn off the power.



When you leave your home for a long time, unplug the AC power cord.



To protect the unit from a lightning storm, unplug the AC power cord from the wall outlet and disconnect the antenna.



POWER SOURCE

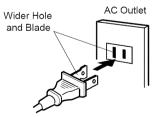
TO USE AC POWER

Use the AC polarized line cord provided for operation on AC. Insert the AC cord plug into a standard 120V 60Hz polarized AC outlet.

NOTES:

- Never connect the AC line cord plug to anything other than the specified voltage (120V 60Hz). Use the attached power cord only.
- If the polarized AC cord does not fit into a nonpolarized AC outlet, do not attempt to file or cut the blade. It is the user's responsibility to have an electrician replace the obsolete outlet.

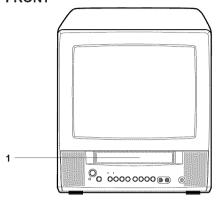
 If you cause a static discharge when touching the unit, and the
- unit fails to function, simply unplug the unit from the AC outlet, wait a few minutes, and plug it back in. The unit should return to normal operation.
- If the AC cord plug is plugged in for the first time, wait for about 5 seconds before pressing the POWER button.



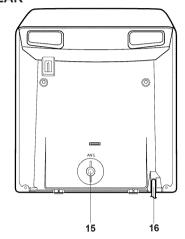
Polarized AC Cord Plug (One blade is wider than the other)

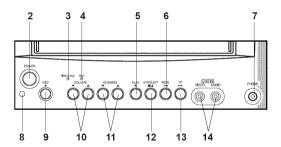
LOCATION OF CONTROLS

FRONT



REAR





DESCRIPTION OF CONTROLS

FRONT:

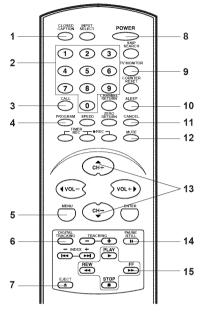
- Cassette loading slot To insert or remove a video tape
- 2. POWER button Press to turn the TV/VCR on or off.
- 3. TIMER REC indicator Lights when the unit is in the Timer Record Mode.
- **4. REC indicator -** Lights up when the TV/VCR is recording.
- 5. PLAY button Press to play a prerecorded tape.
- REW (Rewind) button In the Stop mode, this button rapidly winds the tape backwards. In the Play mode, this button activates reverse search.
- PHONE jack Plug monaural headphones or an earphone with an 1/8" miniplug into this jack for private listening.
- 8. Remote sensor Signals from the Remote Control are received here.
- REC button Press once to start normal recording. Additional presses activate One-touch Timer Recording.

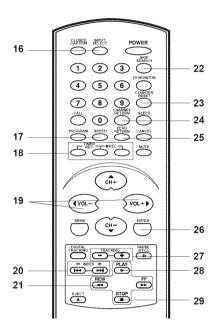
- **10. VOLUME** ▲ / ▼ buttons Press to raise or lower the volume of the sound.
- **11. CHANNEL** ▲ / ▼ buttons Press to select a channel for viewing or recording.
- **12. STOP/EJECT button -** Press once to stop the tape in any mode. Press again to eject the tape.
- 13. FF (Fast Forward) button In the Stop mode, this button rapidly winds the tape forward. In the Play mode, this button activates forward search.
- 14. AUDIO/VIDEO IN jacks Audio and video signal cables from an external source can be connected here.

REAR:

- 15. UHF/VHF antenna jack Connect the 75 ohm coaxial cable from the antenna or Cable TV service to this jack.
- 16. AC power cord Connect to a 120V, 60Hz outlet.







DESCRIPTION OF CONTROLS

- 1. CLOSED CAPTION button Switches between Caption, Text and TV modes for Closed-Captioned programs.
- 2. Direct channel selection buttons (0-9) Allows direct access to any channel.
- 3. CALL button Displays the present time/day of the week, channel, counter, speed selection (and VCR mode if VCR is operating) on the TV screen.
- 4. PROGRAM button Press to confirm the programmed timer recording and ON/OFF timer.
- 5. MENU button Press to display the On-Screen menu function.
- 6. DIGITAL TRACKING button Allows automatic adjustment of tracking to minimize picture noise during playback.
- 7. EJECT button Press to eject the tape.
- 8. POWER button Press to turn the TV/VCR on. Press again to turn the TV/VCR off.
- TV MONITOR button Used to temporarily view a TV channel selected on the VCR while in the playback mode.
- 10. SLEEP button Sets the TV to turn off automatically after up to 120 minutes.
- 11. CANCEL button Used to clear the selected program or the input data.
- 12. MUTE button Press to turn off the sound. Press again to turn the sound back on.
- 13. CHANNEL + / and ▲ / ▼ (cursor) buttons CHANNEL + / - : Press the + button to change to a higher numbered channel set into memory. Press the - button to change to a lower numbered channel set into memory
 - ▲ / ▼ (cursor): Selects an item in the menu.
- 14. PAUSE/STILL button During recording, this button temporarily stops the tape. During playback, it stops the tape and displays a still image on the TV screen.
- 15. FF (Fast Forward) button In the Stop mode, this button rapidly winds the tape forward. In the Play mode, this button activates forward search.

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- 16. INPUT SELECT button Switches the program for viewing between the TV/VCR and external input sources
- 17. SPEED button Sets the tape speed for recording.
- 18. REC and TIMER REC buttons

REC: Press both buttons at the same time once to start normal recording. Additional presses activate One-touch Timer Recording.

TIMER REC: Used to set the TV/VCR to start recording at a preset time.

19. VOLUME + / - and ◀ / ➤ (cursor) buttons

VOLUME + / - : Press the + button to increase, or the button to decrease the volume level.

- ◄ / ► (cursor): Select an item or adjust the setting in the menu
- 20. INDEX + / buttons Search for the INDEX mark of a
- 21. REW (Rewind) button In the Stop mode, this button rapidly winds the tape backwards. In the Play mode, this button activates reverse search.
- 22. SKIP SEARCH button Press in the playback mode to search forward in 30 second increments to a maximum of 3 minutes
- 23. COUNTER RESET button Used to reset the counter to 00:00:00.
- 24. CHANNEL RETURN button Switches between the present channel and the last channel selected
- 25. ZERO RETURN button Use to stop the tape when the counter reaches 00:00:00.
- 26. ENTER button Press to enter or select information for on-screen operations.
- 27. TRACKING + / buttons During playback, they are used to adjust tracking manually.
- 28. PLAY button Press to play a prerecorded tape
- 29. STOP button Press once to stop the tape.

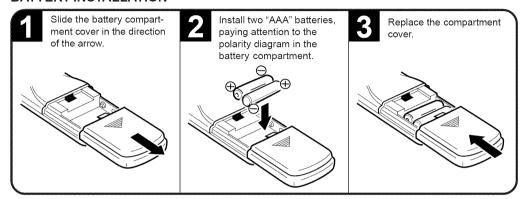






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BATTERY INSTALLATION



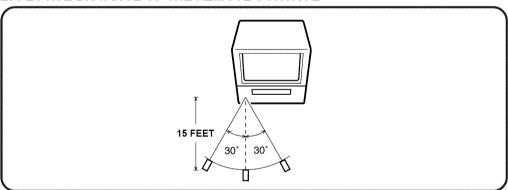
BATTERY PRECAUTIONS

The precautions below should be followed when using batteries in this device:

- 1. Use only the size and type of batteries specified.
- 2. Be sure to follow the correct polarity when installing the batteries as indicated in the battery compartment. Reversed batteries may cause damage to the device.
- 3. Do not mix different types of batteries together (e.g. Alkaline and Carbon-zinc) or old batteries with fresh ones.
- 4. 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.
- 5. Do not try to recharge batteries not intended to be recharged; they can overheat and rupture (Follow battery manufacturer's directions).

EFFECTIVE DISTANCE OF THE REMOTE CONTROL

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- NOTES: When there is an obstacle between the TV/VCR and the remote control, the remote control may not operate
 - When direct sunlight, an incandescent lamp, fluorescent lamp or any other strong light shines on the Remote sensor of the TV/VCR, the remote operation may be unstable.
 - When using the remote control, press the button at intervals of about 1 second to ensure the correct mode of operation.

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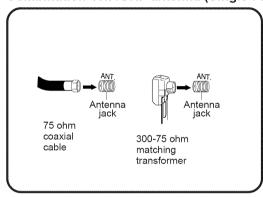






If you are using an indoor or outdoor antenna, follow the instructions below that correspond to your antenna system. If you are using a cable TV service (CABLE), see page 12 for Cable TV connections.

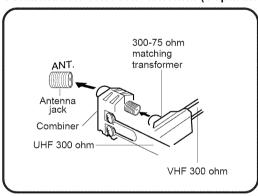
Combination VHF/UHF antenna (Single 75 ohm cable or 300 ohm twin-lead wire)



Connect the 75 ohm cable from the combination VHF/ UHF antenna to the antenna jack.

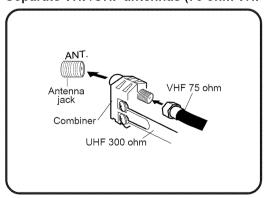
If your combination VHF/UHF antenna has a 300 ohm twin-lead wire, the use of the 300-75 ohm matching transformer may be necessary.

Combination VHF/UHF antenna (Separate VHF and UHF 300 ohm twin-lead wires)



Connect the UHF 300 ohm twin-lead wire to the combiner (not supplied). Connect the VHF 300 ohm twin-lead wire to the 300-75 ohm matching transformer. Attach the transformer to the combiner, then attach the combiner to the antenna jack.

Separate VHF/UHF antennas (75 ohm VHF cable and 300 ohm UHF twin-lead wires)



Connect the VHF 75 ohm cable and UHF 300 ohm twin-lead wire to the combiner (not supplied). Attach the combiner to the antenna jack.

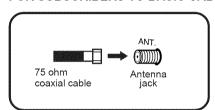




CABLE TV CONNECTIONS

This TV/VCR has an extended tuning range and can tune most cable channels without using a Cable TV converter box. Some cable companies offer "premium pay channels" in which the signal is scrambled. Descrambling these signals for normal viewing requires the use of a descrambler device which is generally provided by the cable company.

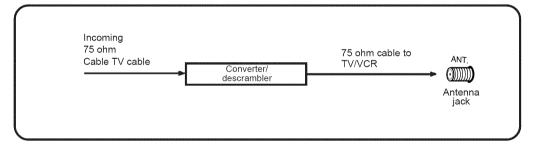
FOR SUBSCRIBERS TO BASIC CABLE TV SERVICE



For basic cable service not requiring a converter/descrambler box, connect the Cable TV 75 ohm coaxial cable directly to the antenna jack on the back of the TV/VCR.

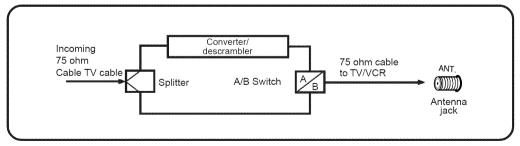
FOR SUBSCRIBERS TO SCRAMBLED CABLE TV SERVICE

If you subscribe to a cable TV service which requires the use of a converter/descrambler box, connect the incoming 75 ohm coaxial cable to the converter/descrambler box. Using another 75 ohm coaxial cable, connect the output jack of the converter/descrambler box to the antenna jack on the TV/VCR. Follow the connections shown below. Set the TV/VCR to the output channel of the converter/descrambler box (usually channel 3 or 4) and use the converter/ descrambler box to select channels.



FOR SUBSCRIBERS TO UNSCRAMBLED BASIC CABLE TV SERVICE WITH **SCRAMBLED PREMIUM CHANNELS**

If you subscribe to a cable TV service in which basic channels are unscrambled and premium channels require the use of a converter/descrambler box, you may wish to use a signal splitter and an A/B switch box (available from the cable company or an electronics supply store). Follow the connections shown below. With the switch in the "B" position, you can directly tune any nonscrambled channels on your TV/VCR. With the switch in the "A" position, tune your TV/VCR to the output of the converter/descrambler box (usually channel 3 or 4) and use the converter/ descrambler box to tune scrambled channels.



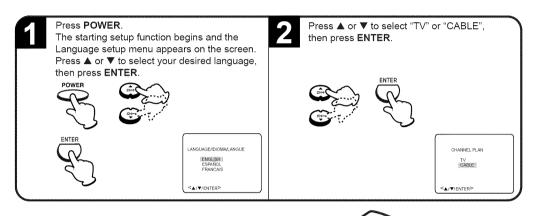
12

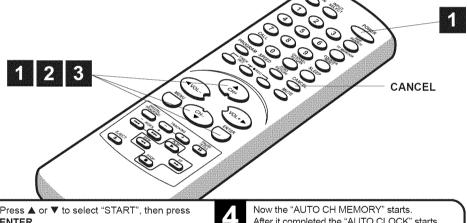
5L80101C P10-19 20/4/04, 16:19 12

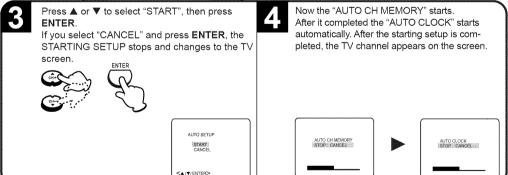




The STARTING SETUP function makes installing your TV/VCR easily. It leads you the Language selection, TV/CABLE selection, auto channel memory and auto clock setting automatically. IMPORTANT: Make sure that the antenna or cable TV system connection is made!







NOTES: • The starting setup function will work only when you press the POWER button for the first time.

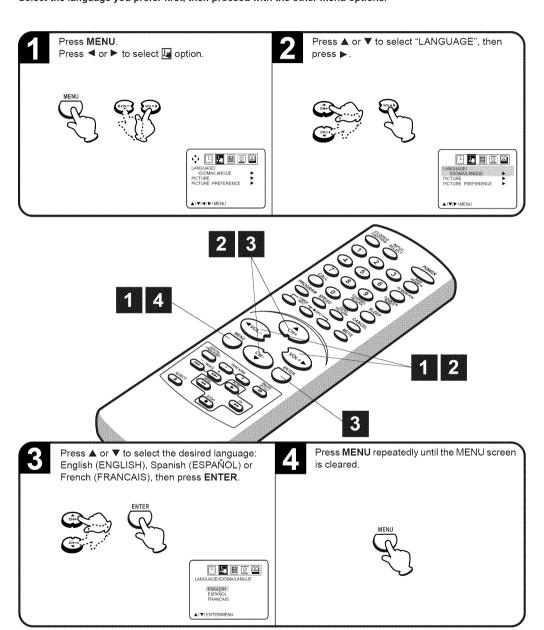
• The auto clock function uses the EDS (Extended Data Service) information carried on the channel signal. If the antenna signal is weak or there are no channels with EDS informations, the auto clock function may not set the time. In this case you must set the clock manually (see page 17).

 In "AUTO CLOCK" setting, it may take more than 10 minutes to read the EDS signal for one channel, which has only "Time of day" or "Local time zone".



SETTING THE LANGUAGE

This TV/VCR can display the on screen language in English, Spanish or French. Select the language you prefer first, then proceed with the other menu options.



14

5L80101C P10-19







The auto clock function will automatically set the built-in clock (Month, Day, Year and Time) when the TV/VCR is connected to an antenna or cable TV system and it is turned off. As the TV/VCR searches for a receivable station in your area and it receives a broadcast signal for auto clock, the auto clock needs several minutes to set itself.

AUTO CLOCK SETTING

- 1. Connect the antenna or cable TV system.
- If you use a cable box, turn it on.
- 2. Plug the AC power cord to the AC outlet.
- 3. Make sure the TV/VCR is turned off.
- If you press POWER, the auto clock set is not effective.
- 4. Wait at least three minutes and press POWER.
- 5. Press CALL to check the clock on the screen.
- 6. If the clock is not set, check the antenna condition. The auto clock may not function properly if the reception condition is not good.

AUTO CLOCK ADJUSTMENT

The auto clock adjustment will be performed at 12:00 PM everyday if you turn off the TV/VCR.

- If you use a cable box and you want auto clock adjustment to be performed, the cable box must be left on.
- The auto clock adjustment is not effective when there is a difference of more than 5 minutes exists between the built-in clock time and the actual time.

TO SET AUTO CLOCK TO OFF

When shipped from factory the AUTO CLOCK option is set to "ON".

But if you do not want Auto Clock set (Adjustment):

- 1. Turn on the TV/VCR.
- 2. Press MENU.
- 3. Press ◀ or ➤ to select ☐ option.
 4. Press ▲ or ▼ to select "AUTO CLOCK".
- 5. Press ◀ or ▶ to select "OFF"
- 6. Press MENU repeatedly until the menu screen is cleared.
 - When the "AUTO CLOCK" is set to "OFF", the auto clock adjustment does not function.
 - Set the clock manually (see page 17).

TO SET STANDARD TIME

In the rare event that you live within broadcast range of two stations in two different time zones, the TV/VCR may recognize the wrong station for the auto clock set.

To correct the situation:

AUTO

- 1. Press MENU.
- 2. Press ◀ or ▶ to select □ option.
- 3. Press ▲ or ▼ to select "STANDARD TIME", then press ▶
- 4. Press ▲/▼/◀/▶ to select your time zone, then press ENTER. (GMT: Greenwich Mean Time)

ATLANTIC : GMT - 4 hours **EASTERN** GMT - 5 hours GMT - 6 hours CENTRAL MOUNTAIN : GMT - 7 hours PACIFIC GMT - 8 hours ALASKA GMT - 9 hours HAWAII : GMT - 10 hours

AUTO SET 5. Press MENU repeatedly until the menu screen is cleared.

NOTE: To be able to select the standard time, the clock must first be set by "AUTO CLOCK" once.



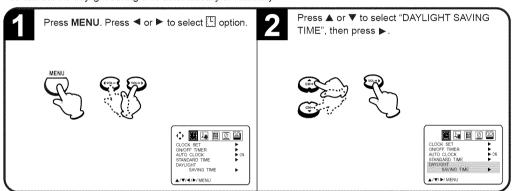


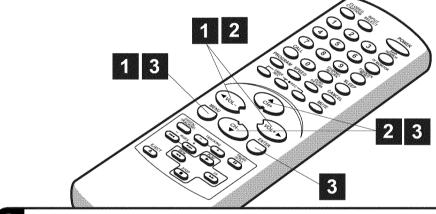


(CONTINUED)

DAYLIGHT SAVING TIME SETTING

You can set the daylight saving time automatically or manually.





Press the ▲ or ▼ to select one of the options, then press ENTER. Press MENU repeatedly until the menu screen is cleared.



ON: for manual setting (forward one hour)

OFF: for manual setting (back one hour)

AUTO: for automatic setting (read EDS in the signal)

When you want to set the daylight saving time manually, on the first Sunday in April you set to "ON", and on the last Sunday in October you set to "OFF".

NOTES: • When shipped from factory, "DAYLIGHT SAVING TIME" is set to "AUTO".

16

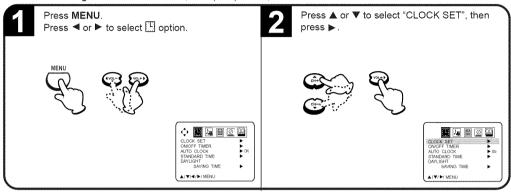
- When the clock is not set, daylight saving time setting is not available.
- When there is no daylight saving time in your area, always select "OFF" in step 3.

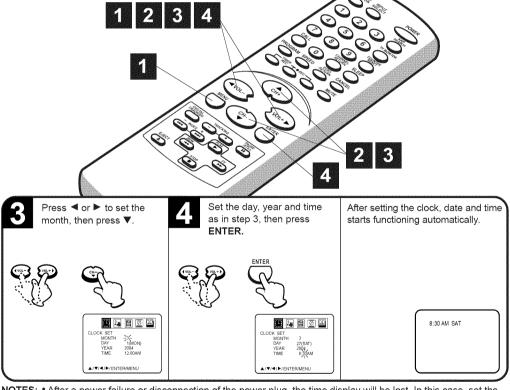




You must set the date and time manually for timer recordings, ON/OFF timer and daylight saving time if the auto clock process did not set them correctly.

EXAMPLE: Setting the clock to "8:30 AM", 27th (SAT) March, 2004.





NOTES: • After a power failure or disconnection of the power plug, the time display will be lost. In this case, set the present time again if the auto clock did not set correctly.

• To move cursor backward, press ▲.





To turn on the TV/VCR, press **POWER**.

Adjust the volume level by pressing VOL + or —. The volume level will be indicated on the screen by green bars. As the volume level increases, so do the number of bars. If the volume decreases, the number of green bars also decreases.

n nses, Set the TV/CABLE selection to the appropriate position (see page 22).

€voi-3 €

VOLUME

TV - VHF/UHF Channels CABLE - Cable TV Channels

4

VH	VHF/UHF/CABLE CHANNELS								
	TV	CABLE							
	VHF 2-13	VHF 2-13							
Λ.	UHF 14-69	STD/HRC/IRC							
	, , , , ,	(A) (W) 37-59							
		(AA) (WW)							
		60-85 (AAA) (ZZZ)							
		86-94 (86) (94)							
		95-99 (A-5) (A-1)							
		100-125 (100) (125)							
		01 (5A)							

CH 012

Press Direct channel selection (0-9) to select the channel.

TV mode direct channel selection

When the TV/CABLE option is in the TV position, all channels can be instantly selected by using two buttons (for example, to select channel 2, press "0", then "2". If you press only "2", channel selection will be delayed for a few seconds). For channels 10 and above, press the 2 digits in order.

CABLE mode direct channel selection

When the TV/CABLE option is in the CABLE position, channels can be selected as follows: TO SELECT CABLE CHANNELS:

l-9 Press "0" twice, then 1-9 as needed. Example, to select channel 2, press "002".

10-12 Press "0", then the remaining 2 digits. Example, to select channel 12, press "012".

13-99 Press the 2 digits in order. Example, to select channel 36, press "36".

100-125 Press the 3 digits in order. Example, to select channel 120, press "120".

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NOTE FOR CHANNELS 1-12:

If only 1 or 2 buttons are pressed, the corresponding channel will be selected in 2 seconds.

NOTES: • If a channel with no broadcast is selected, the sound will automatically be muted.

• If a station being viewed stops broadcasting, the TV will automatically shut itself off after 15 minutes.



CHANNEL + / -

Press and release **CH +** or –. The channel automatically stops at the next channel set into memory. For proper operation, before selecting channels, they should be set into the memory. See pages 23 and 24 "To memorize channels".





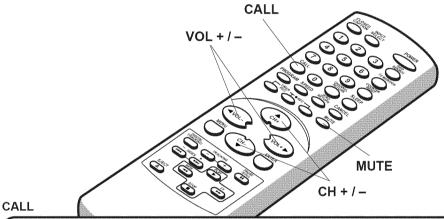
MUTE

Press **MUTE** to switch off the sound. The TV/VCR's sound will be silenced and "MUTE" will briefly appear on the screen. The sound can be switched back on by pressing this button again or one of the **VOL +** or – .





MUTE



Press CALL. The clock, date, channel number, real time tape counter, tape speed and VCR operation will be indicated.

Press CALL again to disappear the call display.

CALL

Current time

VCR operation

847AM THU CH 012 Channel

Auto repeat

Tape In

Tape speed

Real time tape counter

VCR operation

Play Rewind

➤ : Fast-forward L : Eject

: Recording: Recording Pause

: Stop

② → : Zero return (Rewind)② → → : Zero return (Fast-forward)

NOTE: To listen through the headphone, insert a headphone (not supplied) with a 1/8" mini plug into PHONE jack on the front. The sound from the TV speaker is muted.



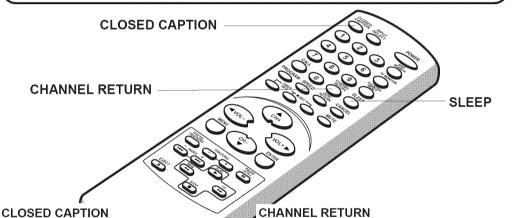
(CONTINUED)

SLEEP

To set the TV/VCR to turn off after a preset amount of time, press **SLEEP** on the remote control. The clock will count down 10 minutes for each press SLEEP (120, 110, ...10, 0). After the sleep time is programmed, the display will appear briefly every ten minutes to remind you that the sleep timer is operating. To confirm the sleep timer setting, press SLEEP and the remaining time will be displayed for a few seconds. To cancel the sleep timer, press SLEEP repeatedly until the display turns to 0.







Press CLOSED CAPTION to switch between normal TV and the two closed caption modes (captions and full screen text). Closed captioning will display text on the screen for hearing impaired viewers.





CHANNEL RETURN allows you to go back to the last channel selected by pressing CHANNEL RETURN. Press this button again to return to the last channel you were watching.





NOTES: • If using an indoor antenna or if TV reception is very poor, the closed caption decoder text may not appear.

- In this case, adjust the antenna for better reception or use an outdoor antenna.

 When activating the closed captioned decoder, there will be a short delay before the closed captioned text appears on the screen.
- Closed captioned TV programs can be recorded and played back on a VCR with the closed captioned text intact. The closed captioning text will disappear during cue, rewind and pause modes or if the VCR tracking is not adjusted properly.
- Closed captioned text is only displayed in locations where it is available.



WHAT IS CLOSED CAPTIONING?

This television has the capability to decode and display closed captioned television programs. Closed captioning will display text on the screen for hearing impaired viewers or it will translate and display text in another language.

CLOSED CAPTIONING WITH A VCR

Closed captioned programs can be recorded and played back on a VCR with the closed captioned text intact. The closed captioned text will disappear during cue (fast forward search), review (eewind search) and pause modes or if the VCR tracking is not adjusted properly.

TO VIEW CLOSED CAPTIONS

Press CLOSED CAPTION on the remote control to switch between normal TV and the two closed caption modes (captions and full screen text).

Captions: This closed caption mode will display text on the screen in English or another language (depending on the setting of the closed captions CH. 1 or 2). Generally, closed captions in English are transmitted on captions channel 1 and closed captions in other languages are transmitted on captions channel 2.

Text: The text closed caption mode will usually fill the screen with a programming schedule or other information. After selecting a closed caption mode, it will stay in effect until it is changed, even if the channel is changed. If the captions signal is lost due to a commercial or a break in the signal, the captions will reappear when the signal is received again.

If the channels are changed, the captions will be delayed approximately 10 seconds.

The captions will appear in places on the screen where they will least interfere with the picture, usually on the bottom of the screen. News programs will usually show three-line closed captions which scroll onto the screen. Most other shows provide two or three lined captions placed near the character who is speaking so the viewer can follow the dialogue.

Words in italics or underlined describe titles, words in foreign languages or words requiring emphasis. Words that are sung usually appear enclosed by musical notes. For television programs broadcasting with closed captions, look in your TV guide for the closed captions symbol (CC).



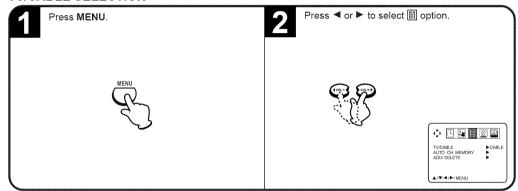


- When selecting closed captions, the captioning will be delayed approximately 10 seconds.
- If no caption signal is received, no captions will appear, but the television will remain in the caption mode.
- Misspellings or unusual characters may occasionally appear during closed captioning. This is normal with closed captioning, especially with live programs. This is because during live programs, captions are also entered live. These transmissions do not allow time for editing.
- When captions are being displayed, on-screen displays, such as volume and mute may not be seen or may interfere with closed captions.
- · Some cable systems and copy protection systems may interfere with the closed captioned signal.
- If using an indoor antenna or if TV reception is very poor, the closed caption decoder may not appear or may appear with strange characters or misspelled words. In this case, adjust the antenna for better reception or use an outdoor antenna.

TO MEMORIZE CHANNELS

This TV/VCR is equipped with a channel memory feature which allows channels to skip up or down to the next channel set into memory, skipping over unwanted channels. Before selecting channels, they must be programmed into the TV/VCR's memory. In addition to normal VHF and UHF channels, this TV/VCR can receive up to 113 Cable TV channels. To use this TV/VCR with an antenna, set the TV/CABLE selection to the TV position. When shipped from the factory, this selection is in the CABLE position.

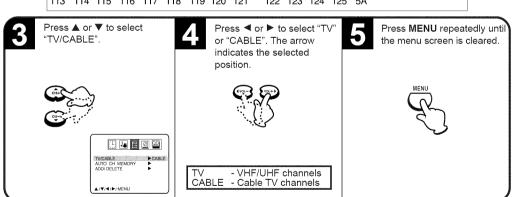
TV/CABLE SELECTION



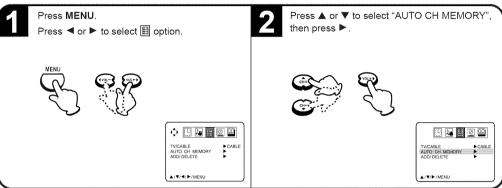
Cable TV chart

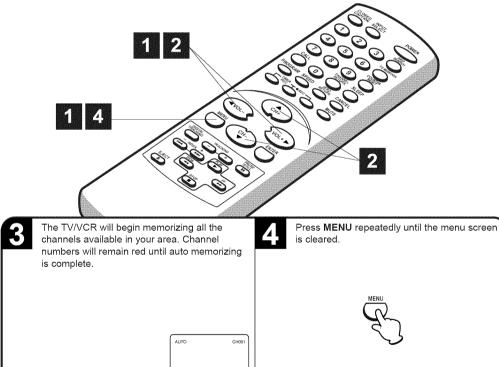
The chart below is typical of many cable system channel allocations.

The shart below to typical of many capite system channel allocations.																	
Nu	mber	on thi	s TV:						14	15	16	17	18	19	20	21	22
Co	rrespo	ondin	g Cabl	e TV	chann	el:			Α	В	С	D	Ε	F	G	Н	I
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
J	K	L	M	Ν	0	Ρ	Q	R	S	Т	U	V	W	AA	BB	CC	DD
41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58
EE	FF	GG	HH	II	JJ	KK	LL	MM	NN	00	PP	QQ	RR	SS	TT	UU	VV
59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76
WW	AAA	BBB	CCC	DDD	EEE	FFF	GGG	HHH	Ш	JJJ	KKK	LLL	MMM	NNN	000	PPP	QQQ
77	AAA 78	BBB 79	CCC 80	DDD 81	EEE 82	FFF 83	GGG 84	HHH 85	III 86	JJJ 87	KKK 88	LLL 89	MMM 90	NNN 91	000 92	PPP 93	QQQ 94
77	78	79	80	81		83	84	85									
77	78	79	80	81	82	83	84 YYY	85	86	87	88	89	90 90	91	92	93	94
77 RRR	78 SSS	79 TTT 97	80 UUU	81 VVV 99	82 WWW 100	83 XXX 101	84 YYY	85 ZZZ 103	86 86	87 87	88 88	89 89	90 90 108	91 91 109	92 92	93 93 111	94 94 112
77 RRR 95	78 SSS 96	79 TTT 97	80 UUU 98 A-2	81 VVV 99 A-1	82 WWW 100	83 XXX 101	84 YYY 102 102	85 ZZZ 103	86 86 104	87 87 105	88 88 106	89 89 107	90 90 108 108	91 91 109	92 92 110	93 93 111	94 94 112
77 RRR 95 A-5	78 SSS 96 A-4	79 TTT 97 A-3	80 UUU 98 A-2 116	81 VVV 99 A-1	82 WWW 100 100 118	83 XXX 101 101 119	84 YYY 102 102	85 ZZZ 103 103	86 86 104 104	87 87 105 105 123	88 88 106 106 124	89 89 107 107	90 90 108 108 01	91 91 109	92 92 110	93 93 111	94 94 112



AUTOMATIC MEMORY TUNING

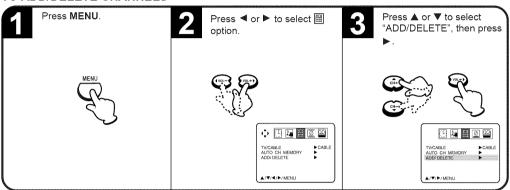


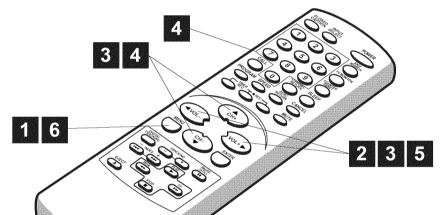


TO MEMORIZE CHANNELS

(CONTINUED)

TO ADD/DELETE CHANNELS





Select the desired channel to be memorized or deleted using ▲ or ▼, Direct channel selection (0–9).



- 1 2 3 4 5 6
- 7 8 0 0

Press ◀ or ▶ to select "ADD" or "DELETE". If you select an unmemorized channel, the channel indication will be red. If you select "ADD", the channel indication changes from red to green and the channel will be memorized. If you select a memorized channel, the channel indication will be green. If you select "DELETE", the channel indication changes from green to red and the channel will be deleted from the memory.





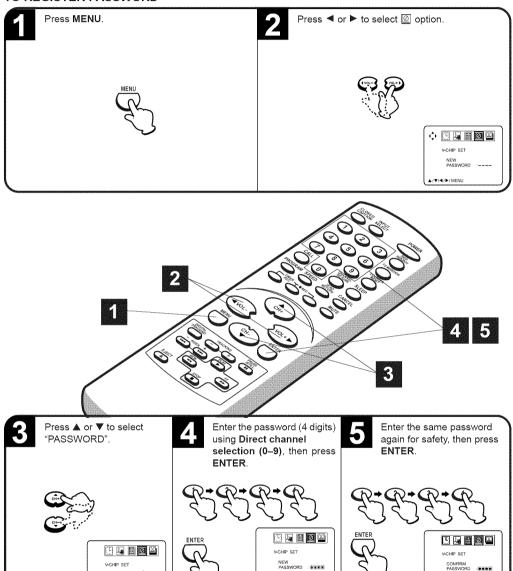
Press **MENU** repeatedly until the menu screen is cleared.





An age limitation can be set to forbid children to watch programs according to "TV RATING" and "MOVIE RATING" level set. To use the V-Chip function, you must register a password.

TO REGISTER PASSWORD



If you forget the password, you cannot set the V-Chip. To avoid forgetting the password, write it down and keep in a safe place.

*" appears instead of the number.

25

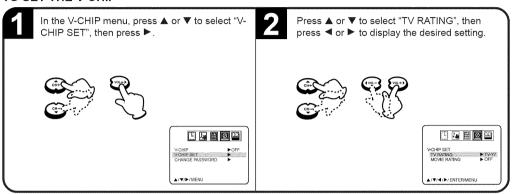
25

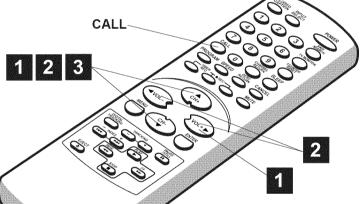
V-CHIP SET menu appears.



(CONTINUED)

TO SET THE V-CHIP





OFF: TV RATING is not set

TV-Y : All children

TV-Y7: 7 years old and above
TV-G: General Audience
TV-PG: Parental guidance
TV-14: 14 years old and above
TV-MA: 17 years old and above

• When you select TV- Y7, TV-PG, TV-14 or TV-MA, press CALL to explain the rating. Press ▲ or ▼ to select the desired rating you want. Press ◀ or ▶ to select the setting "ON" or "OFF".

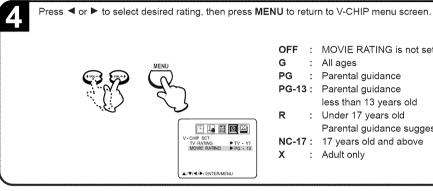
Press ▲ or ▼ to select "MOVIE RATING".

NOTE: The V-Chip function is activated only on programs and tapes that have the rating signal.

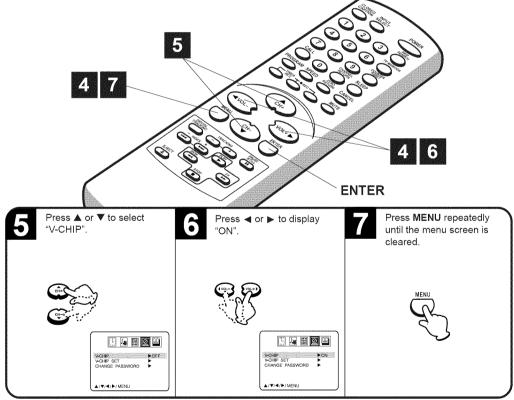
26

5L80101C P20-33 26





OFF : MOVIE RATING is not set G : All ages PG : Parental guidance PG-13: Parental guidance less than 13 years old : Under 17 years old Parental guidance suggested NC-17: 17 years old and above : Adult only



To use the TV after the TV is protected.

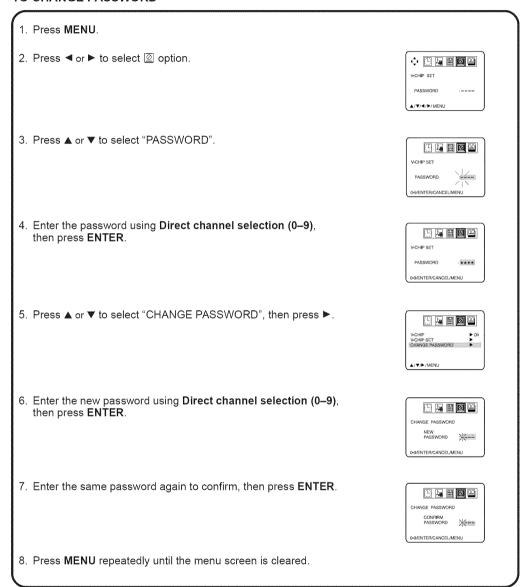
When the program applied to the V-Chip setting is received, enter the password, then press ENTER. When the password is entered correctly the protection will be temporarily overridden.

27



(CONTINUED)

TO CHANGE PASSWORD

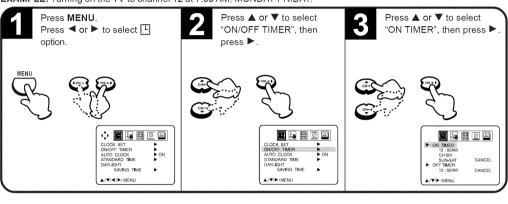


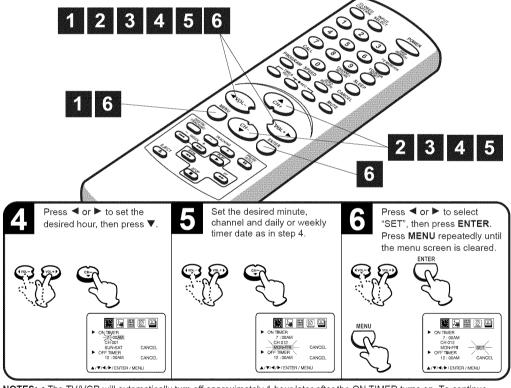




This feature allows you to have the TV/VCR automatically turn "ON" at a predetermined time. If you program the ON TIMER once, the TV/VCR will turn on on the programmed day (daily/weekly) at the same time to the same channel.

EXAMPLE: Turning on the TV to channel 12 at 7:00 AM, MONDAY-FRIDAY.





NOTES: • The TV/VCR will automatically turn off approximately 1 hour later after the ON TIMER turns on. To continue watching the TV press any button to cancel the one bour automatic shut off

- watching the TV, press any button to cancel the one hour automatic shut off.

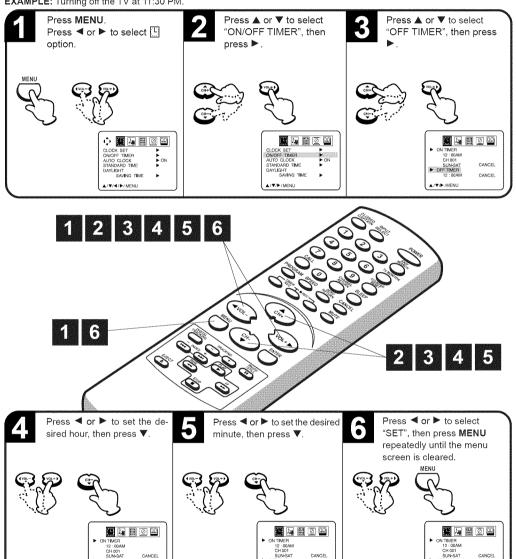
 To cancel ON TIMER, follow above steps 1~5, then press ◀ or ▶ to select "CANCEL". Press MENU repeatedly until the menu screen is cleared.
- until the menu screen is cleared.

 After setting the ON TIMER, the selected cursor on to "OFF TIMER". If you wish to set the OFF TIMER, press ▶ then follow the steps 4~6 on page 30.
- If you want to correct the digits while setting, press ▲ or ▼ until the item you want to correct, then press ◀ or ▶ to correct the desired setting.



This feature allows you to have the TV/VCR turn "OFF" automatically at a predetermined time. If you program the OFF TIMER once, the TV/VCR will automatically turn off at the same time everyday.

EXAMPLE: Turning off the TV at 11:30 PM.



- NOTES: If a station being viewed stops broadcasting, the TV will automatically shut itself off after 15 minutes.
 To cancel OFF TIMER, follow above steps 1~5, then press ◀ or ▶ to select "CANCEL".

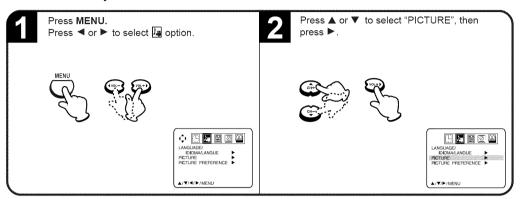
 - Press MENU repeatedly until the menu screen is cleared.

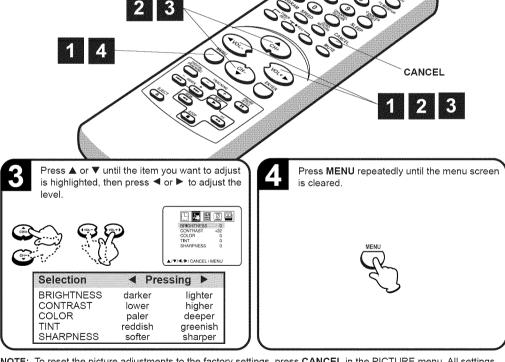
 To confirm the ON/OFF TIMER:
 - Press PROGRAM twice to indicate the programs on the screen.





You can adjust the picture quality to your personal preferences, including the contrast, brightness, color, tint, and sharpness. The qualities you choose will be stored automatically in your TV's memory so you can recall them at any time.



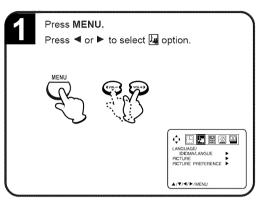


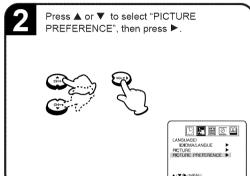
NOTE: To reset the picture adjustments to the factory settings, press CANCEL in the PICTURE menu. All settings reset to the factory settings.

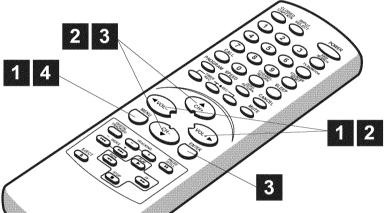


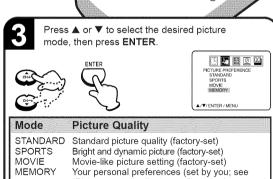
ADJUSTING THE PICTURE PREFERENCE

You can select four picture modes—Sports, Standard, Movie, and Memory—as described in the following table:

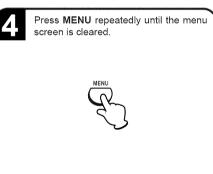








"Picture control adjustments" on previous page)









LOADING AND UNLOADING A VIDEO CASSETTE

Use only video cassette tapes marked $\overline{\mbox{VHS}}$.

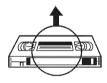
LOADING

Push the center of the tape until it is automatically retracted into the TV/VCR.

AUTOMATIC POWER ON AND PLAY

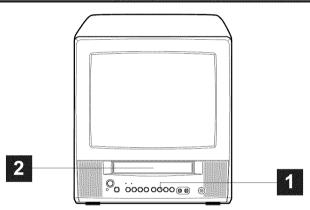
When loading a cassette tape without the erase prevention tab intact, the TV/VCR will turn on automatically and playback will start immediately.

Insert the cassette with its labeled side facing you. An inverted video cassette cannot be inserted.









UNLOADING

To unload a video cassette, press EJECT on the remote control, or press STOP/EJECT on the TV/VCR twice. The first press will stop the tape in any mode. The second press will eject the tape.

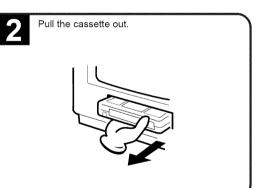








If the TV/VCR automatically rewinds the tape to the beginning (AUTO REWIND FEATURE), the tape will be ejected automatically (See NOTE on page 40).



20/4/04, 16:22

NOTES: • Always eject the tape when not in use.

• The cassette tape can be ejected even if the POWER is "OFF".



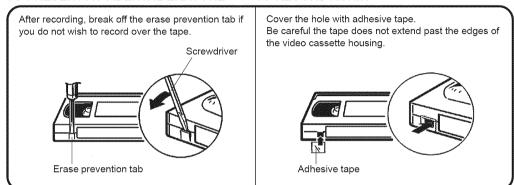




(CONTINUED)

TO PREVENT ACCIDENTAL ERASURE

TO RECORD AGAIN



TAPE SPEED AND MAXIMUM PLAYBACK/RECORDING TIME

TARE ORDER	VIDEO CASSETTE TAPE							
TAPE SPEED	T-160	T-120	T-90	T-60	T-30			
SP (Standard Play)	2-2/3 hours	2 hours	1-1/2 hours	1 hour	30 minutes			
SLP (Super Long Play)	8 hours	6 hours	4-1/2 hours	3 hours	1-1/2 hours			

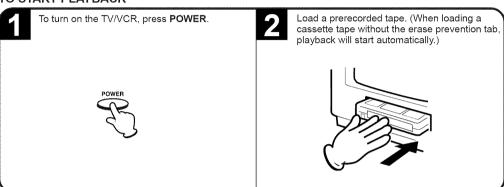


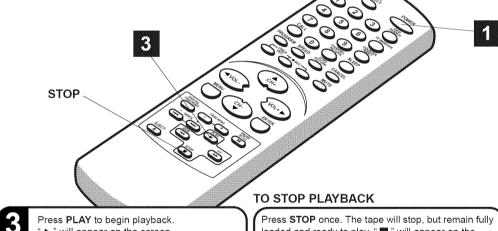




To play a prerecorded tape.

TO START PLAYBACK





Press **PLAY** to begin playback. " **▶**" will appear on the screen.

Press **STOP** once. The tape will stop, but remain fully loaded and ready to play. " " vill appear on the





NOTE: This TV/VCR selects the playback tape speed SP or SLP automatically.



(CONTINUED)

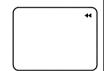
TO REWIND OR FORWARD THE TAPE RAPIDLY

Press REW (Rewind) in the stop mode.

■ " will appear on the screen.

Press **FF (Fast Forward)** in the stop mode. "**▶**" will appear on the screen.



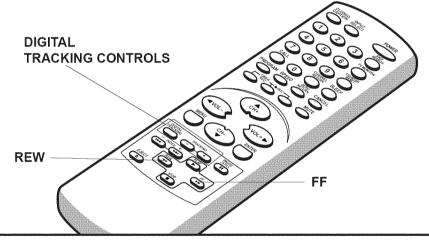






FORWARD/REVERSE PICTURE SEARCH

If you want to see the tape during REW or FF mode, press and hold **REW** or **FF**. The backward or forward visual search picture will be seen on the screen. Release to return to the REW or FF mode.



When a tape is played, the digital auto tracking system automatically adjusts the tracking to obtain the best possible picture. If noise bars appear during playback, adjust the tracking manually as follows:

Press TRACKING + or – to obtain the best possible picture.
 "MANUAL TRACK" will appear for 4 seconds on the screen. To resume automatic tracking, press DIGITAL TRACKING. "DIGITAL TRACK" will appear for 4 seconds on the screen.











TO VISUALLY SEARCH FOR DESIRED POINTS

When either FF or REW is pressed in the PLAYBACK mode, the speed search picture will appear. When pressed twice, the search picture will increase speed. Speed search time depends upon the speed used (SP or SLP) during recording. See chart below.

To rewind or fast forward a tape, press STOP, and then press REW or FF.

To visually search backward, press REW once or twice in the PLAYBACK mode.

To visually search forward, press FF once or twice in the PLAYBACK mode.

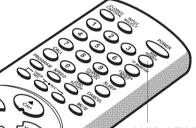


Press PLAY to resume normal viewing speed.

Press PLAY to resume normal viewing speed.

SPEED SEARCH TIMES

TAPE SPEED	PICTURE SEARCH SPEED			
TAPE SPEED	PRESS ONCE	PRESS TWICE		
SP (Standard Play)	3 X	5 X		
SLP (Super Long Play)	9 X	15 X		



SKIP SEARCH

PAUSE/STILL

STOP

SKIP SÈARCH

TO WATCH STILL PICTURE

Press PAUSE/STILL in the PLAY-BACK mode.



Press PLAY or PAUSE/STILL to resume normal playback.

Press SKIP SEARCH in the PLAYBACK mode. The TV/VCR will search forward through approximately 30 seconds of the tape (e.g. unwanted commercial time) for each press of SKIP SEARCH (maximum six presses) and then resume normal playback.

For example: 1 press: 30 seconds of tape

2 press: 60 seconds of tape

3 press: 90 seconds of tape



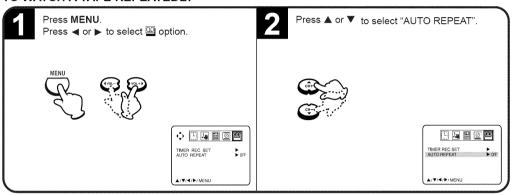
NOTES: • Best results during speed search and still playback can be obtained with video cassettes recorded in the "SLP" mode.

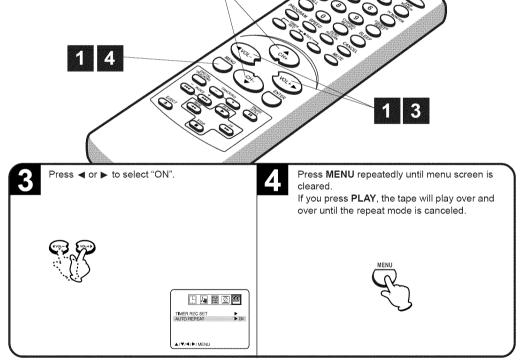
- The audio output is muted during speed search and still.
 A few noise bars will appear on the TV screen during speed search and still.
- To prevent damage to the tape, still and speed search mode is automatically changed to the playback mode after 5 minutes.



(CONTINUED)

TO WATCH A TAPE REPEATEDLY





NOTE: To cancel auto repeat function, follow above steps 1 and 2, then press ◀ or ▶ to select "OFF". Press MENU to return to the TV.

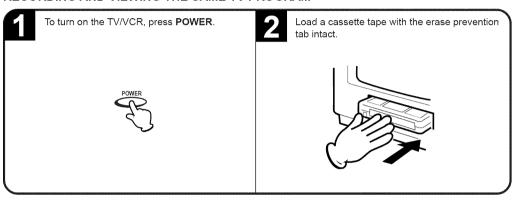
The auto repeat function is canceled automatically when the unit is switched off or the tape is ejected.

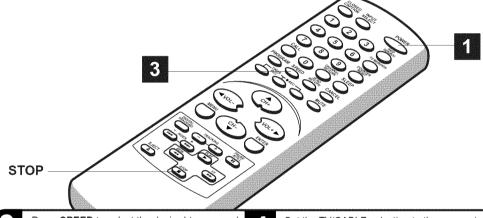
38

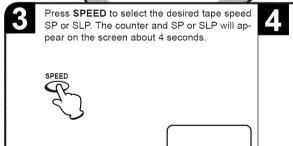
5L80101C P34-43 38 20/4/04, 16:22

RECORDING A TV PROGRAM

RECORDING AND VIEWING THE SAME TV PROGRAM







Set the TV/CABLE selection to the appropriate position (see page 22).

TV - VHF/UHF channels CABLE - Cable TV channels

NOTES: • If power is switched off during recording, the TV set goes off and the VCR continues to record.

00:00:00 SP

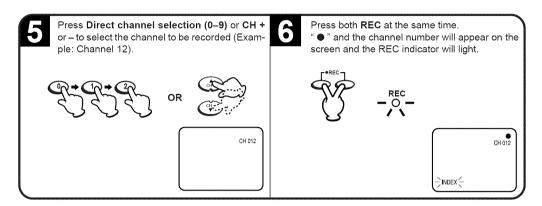
Press STOP to halt the recording and turn off the VCR.

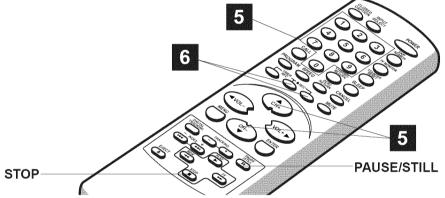
The TV/VCR Channel cannot be changed during recording.



RECORDING A TV PROGRAM

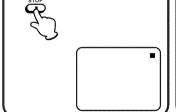
(CONTINUED)





TO STOP RECORDING

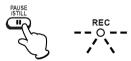
Press **STOP** to stop recording.
" " will appear on the screen.



TO STOP RECORDING TEMPORARILY

Press PAUSE/STILL to avoid recording unwanted material.

"II" and the channel number will appear on the screen and the REC indicator will blink on and off. Press PAUSE/STILL or both REC to continue the recording.





NOTE:

The pause mode will be changed to the stop mode after five minutes to prevent damage to the tape.

NOTES: • AUTO REWIND FEATURE

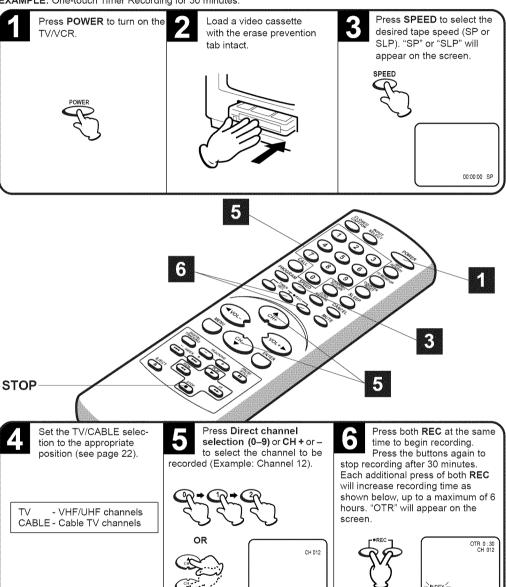
This TV/VCR will automatically rewind the video cassette when the tape has ended (except during OTR and timer recording). It will also eject the video cassette.

• If the erase prevention tab is removed, the tape will eject when both REC are pressed for recording.

ONE-TOUCH TIMER RECORDING (OTR)

The One-touch Timer Recording feature provides a simple and convenient way to make a timed recording.

EXAMPLE: One-touch Timer Recording for 30 minutes.



NOTES: • Press both REC at the same time to increase the time needed for recording (see the chart below).

Press	once	twice	3 times	4 times	5 times	6 times	7 times	8 times	9 times	10 times
Recording time	NORMAL REC	0:30	1:00	1:30	2:00	3:00	4:00	5:00	6:00	NORMAL REC

[•] To cancel OTR, press STOP.

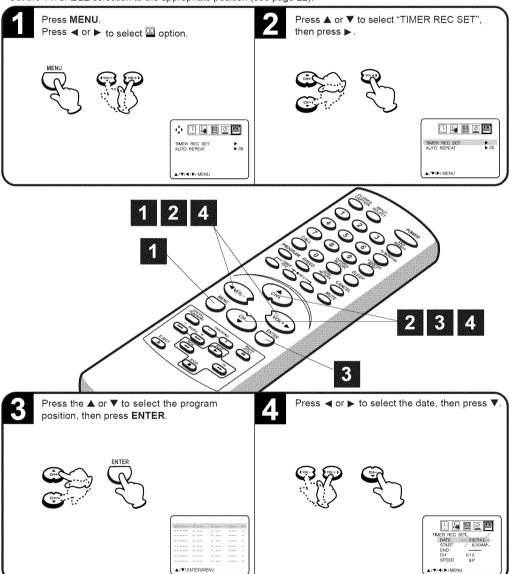
[•] The TV/VCR channel cannot be changed during recording.



Timer recording can be programmed on-screen with the remote control. The built-in timer allows automatic unattended recording of up to 8 programs within 1 month.

EXAMPLE: Program a timer recording for 23rd day, channel 007 (CABLE), 7:00 - 9:30 PM (Tape speed: SLP).

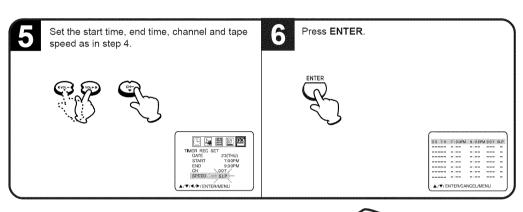
- Load a video cassette with the erase prevention tab intact. The TV/VCR will automatically turn on.
- Set the TV/CABLE selection to the appropriate position (see page 22).

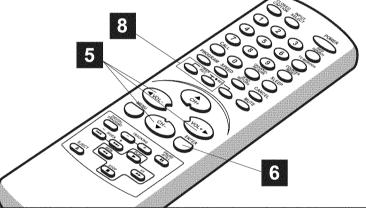


- **NOTES:** If programming is performed without a tape in the TV/VCR, or with a tape without an erase prevention tab, the timer recording is not possible. If a tape without an erase prevention tab is in the TV/VCR the tape will be ejected.
 - To record from the external equipment press ◀ or ▶ repeatedly until "L" (LINE : from AUDIO/VIDEO IN jacks on the front) appears when setting the channel in step 5.

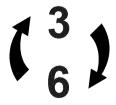
42

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To set the timer for another program repeat steps 3 to 6 to set the second program.



Press both TIMER REC at the same time. The 8 TIMER REC indicator will light. When the programed time is reached, the recording is automatically started.





To cancel timer recording, press both the buttons again and TIMER REC indicator will go off.

NOTES: • The VCR section cannot be used while the TIMER REC indicator is lit. If you want to use the VCR operation, press both TIMER REC at the same time to deactivate the timer.

• After a power failure or disconnection of the power plug, all programed recording setting and time display will be lost upon resumption of power. In this case, reset the clock (see pages 15~17) and reprogram any timer recordings.





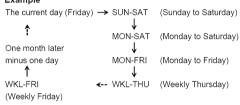
TO SET DAILY/WEEKLY TIMER

TO CONFIRM THE SETTINGS

When setting the date in the step 4 on page 42, press
◀ repeatedly.

The setting changes as follows:

Example



Press **PROGRAM** once. The TV screen displays the timer program list.

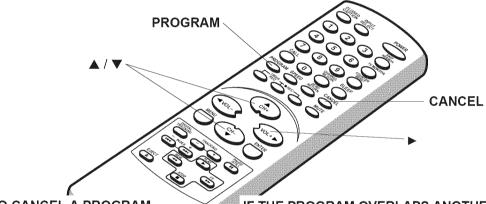
Press **PROGRAM** again. The TV screen displays the ON/OFF timer setting.

(once)

GRAM 28 TH 7:50M



Press **PROGRAM** 3 times. The screen returns to the normal screen.



TO CANCEL A PROGRAM

IF THE PROGRAM OVERLAPS ANOTHER

Select

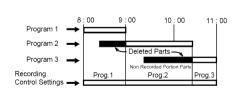
option in the menu.

Press ▲ or ▼ to select "TIMER REC SET", then press ▶. Press ▲ or ▼ to select the unnecessary program, and press CANCEL to cancel the program.

CANCEL



NOTE: Do not overlap programs as portions of the conflicting programs will be lost. The first recording time has priority over the next recording time as shown in the diagram.



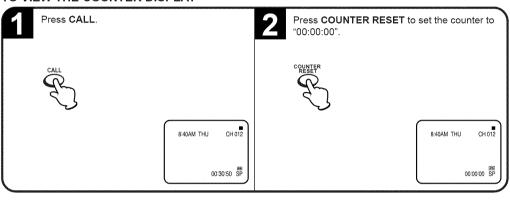
20/4/04, 16:23

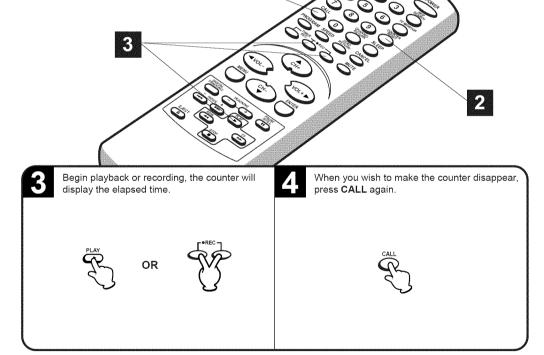
- NOTES: The everyday/every week recording can be made continuously until the recording is canceled or the tape reaches the end.
 - During timer recording, the automatic rewinding mechanism does not function.
 - You can correct or cancel the programmed setting in program confirm mode.



The on-screen real time tape counter shows the tape running time in hours, minutes and seconds. You can easily determine how long the tape has been running or how much time is left on the tape.

TO VIEW THE COUNTER DISPLAY





NOTES: • If you rewind the tape from "00:00:00", a minus sign ("-") will be displayed in front of the time.

• When you load a tape, the counter will reset to "00:00:00".

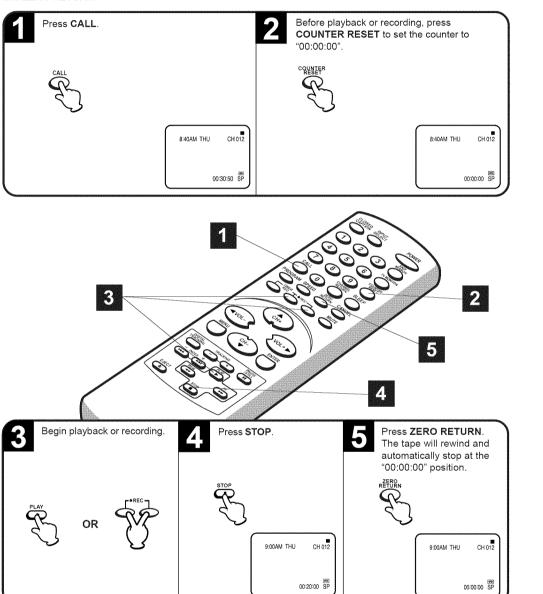
45

• The counter does not function on nonrecorded (blank) sections of the tape. When you rewind, fast forward or play tapes through blank sections, the counter stops.



USING ZERO RETURN

The zero return function provides a convenient method of rapidly returning to the starting point of recording or playback. The starting point can be indexed for any location on the tape by pressing COUNTER RESET and ZERO RETURN.





VIDEO INDEX SEARCH SYSTEM/TO MONITOR A TV PROGRAM

Video index search system

This function enables you to locate the beginning of any recording made on the VCR.

Recording an INDEX mark

Index search

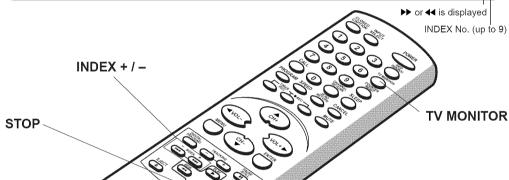
The index search function automatically records an INDEX mark on the tape whenever a recording is initiated.

Press INDEX + or – during stop or play mode. For succeeding programs: Press INDEX +. For preceding programs: Press INDEX -. (Additional press increases the INDEX No. up to 9.) When the INDEX + or - is pressed, the unit starts searching the INDEX No. selected and finds the portion, then playback starts automatically. To stop the index search, press STOP.









TO MONITOR A TV PROGRAM

Press TV MONITOR while in the playback mode. The video tape will continue to play while the picture switches to the TV channel selected on the TV/VCR. Press the button to return to the playback picture.

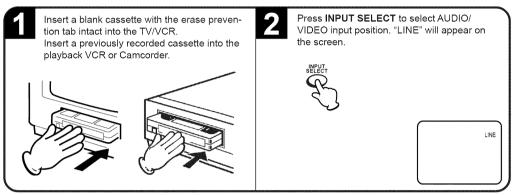


- NOTES: When you record an INDEX mark at the very beginning of the tape, the mark may not be found.
 - During INDEX search, the tape may stop and begin to play at a slightly different location.
 - INDEX may not function properly with old or worn out video tapes.
 - INDEX marks may not be found if it is extremely close to the point where the search began.
 - In recording, if you stop recording temporarily, the INDEX mark is not recorded on the tape.

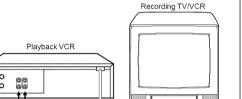




If you connect the TV/VCR to another VCR or Camcorder, you can duplicate a previously recorded tape. Make all connections before turning on the power.



CONNECTION TO ANOTHER VCR



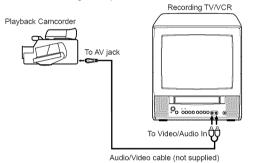
00000000

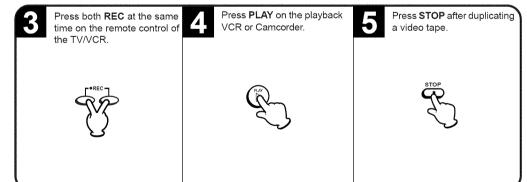
To Video In 🛱 To Audío In

Audio/Video cable (not supplied)

CONNECTION TO CAMCORDER

For duplicating a previously recorded tape from a camcorder, follow the camcorder manufacturer's instructions. A typical camcorder dubbing hookup is shown below.





To VIDEO OUT

To AUDIO OUT

- NOTES: It is recommended that the tape speed be set to the SP mode on the TV/VCR for best result.
 - Unauthorized recording of copyrighted television programs, films, video cassettes and other materials may infringe the rights of copyright owners and be contrary to copyright laws.





RECEPTION DISTURBANCES

Most types of television interference can be remedied by adjusting the height and position of the VHF/UHF antenna. Outdoor antennas are recommended for best results. The most common types of television interference are shown below. If one of these symptoms appear when the TV/VCR is connected to a Cable TV system, the disturbance may be caused by the local Cable TV company broadcast.

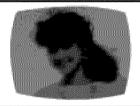
IGNITION

Black spots or horizontal streaks may appear, the picture may flutter or drift. Usually caused by interference from automobile ignition systems, neon lamps or AC powered tools and appliances such as drills or hair drivers



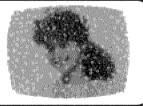
GHOSTS

Ghosts are caused by the television signal following two paths. One is the direct path and the other is reflected by tall buildings, hills or other large objects. Changing the direction or position of the antenna may improve the reception.



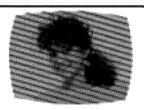
SNOW

If the TV/VCR is located far from the TV station, in a fringe reception area where the signal is weak, small dots may appear in the picture. If the signal is extremely weak, the installation of a larger external antenna may be necessary.



RADIO FREQUENCY INTERFERENCE (RFI)

Caused by two-way radios, this type of interference produces moving ripples or diagonal streaks in the picture. Some cases may cause a loss of contrast in the picture. Changing the direction and position of the antenna or installing an RFI filter may improve the picture.



PICTURE SIZE VARIATION

A slight picture size variation is normal when you adjust the CONTRAST or BRIGHTNESS settings.



CARE AND MAINTENANCE

To prevent fire or shock hazard, disconnect the TV/VCR from the AC power sources before cleaning. The finish on the cabinet may be cleaned with mild soap and a soft, damp cloth and cared for as other furniture. Use caution when cleaning or wiping the plastic parts.





PROBLEM AND TROUBLESHOOTING GUIDE

Check the following chart before requesting service.

SYMPTOM	CAUSE	POSSIBLE SOLUTION	PAGE	
POWER		1		
No power.	The AC power cord is not connected.	Connect the AC power cord to the AC outlet.	7	
Although the power is on, the TV/VCR does not	Cassette is not inserted.	Insert a video cassette.	33	
operate.	TIMER REC buttons are depressed.	Press the TIMER REC buttons.	43	
TV BROADCAST RECEPT	TION	1		
	TV station experiencing problems.	Try another channel.	18	
	Picture control is not adjusted.	Check picture control adjustments.	31, 32	
Poor or no picture.	Possible local interference.	Check for source of reception disturbance.	49	
	Antenna (CABLE) connector is not connected or possible local interference.	Check CABLE connection or VHF/ UHF antenna, reposition or rotate antenna.	11, 12	
	TV station experiencing problems.	Try another channel.	18	
	Picture control is not adjusted.	Check picture control adjustments.	31, 32	
Poor or no color.	Possible local interference.	Check for source of reception disturbance.	49	
	Antenna (CABLE) connector is not connected or possible local interference.	Check CABLE connection or VHF/ UHF antenna, reposition or rotate antenna.	11, 12	
Picture wobbles or drifts.	TV station experiencing problems.	Try another channel.	18	
	Antenna (CABLE) connector is not connected or possible local interference.	Check CABLE connection or VHF/ UHF antenna, reposition or rotate antenna.	11, 12	
	Cable TV channel is scrambled.	Try another channel.	18	
No CABLE reception.	CABLE connector is not connected.	Check all CABLE connections.	12	
	TV/CABLE selection is set to "TV".	Set the TV/CABLE selection to "CABLE".	22	
	Cable TV service interrupted.	Contact your Cable TV company.	12	
No reception above channel 13.	TV/CABLE selection is not set to the appropriate position.	Make sure TV/CABLE selection is in the appropriate position.	22	
	UHF antenna is not connected.	Check UHF antenna.	11	
Poor or no sound.	TV station experiencing problems.	Try another channel.	18	
	Antenna (CABLE) connector is not connected or possible local interference.	Check CABLE connection or VHF/ UHF antenna, reposition or rotate antenna.	11, 12	
	Possible local interference.	Check for source of reception disturbance.	49	
	MUTE button is depressed.	Check that MUTE button has not been pressed.	19	







SYMPTOM	CAUSE	POSSIBLE SOLUTION	PAGE
	TV station stopped broadcasting.	Tune new channel.	18
TV shuts off.	Sleep timer is set.	Set Sleep Timer to "0".	20
	OFF timer is set.	Set OFF TIMER to "CANCEL".	30
Closed caption is not activated.	TV station experiencing problems or program tuned is not closed captions.	Try another channel.	18, 19
	TV signal is weak.	Check CABLE connection of VHF/ UHF antenna, reposition or rotate antenna.	11, 12
	The CLOSED CAPTION button is not depressed.	Press the CLOSED CAPTION button to turn on the closed caption.	20, 21
RECORDING			
TV recording does not work.	The video cassette's erase prevention tab is broken off.	Place a piece of vinyl tape over the hole.	34
	The time is not set correctly.	Reset the present time.	17
Timer recording does not work.	The recording start/end time is not set correctly.	Reset the start/end time.	42, 43
	The TIMER REC buttons has not been pressed (The TIMER REC indicator is not lit).	Press the TIMER REC buttons (The TIMER REC indicator is lit).	43
PLAYBACK			•
	Tape is old or worn.	Replace the tape.	
Noise bars appear on the screen.	Tracking adjustment is beyond range of automatic tracking circuit.	Adjust tracking manually using the TRACKING + or – button on the remote control.	36
	Video heads are dirty.	Clean the video heads.	52
REMOTE CONTROL			
Remote control does not operate.	The remote control is not aimed at the sensor.	Aim the remote control at the remote sensor.	10
	Distance is too far or too much light in the room.	Operate within 15 feet or reduce the light of the room.	10
	There is an obstacle in the path of the beam.		
	The batteries are weak. Replace the batteries.		10
	The batteries are not inserted correctly.	Insert correctly.	10







VIDEO HEAD CLOGGING

The video heads are the means by which the TV/VCR reads the picture from the tape during playback. In the unlikely event that the heads become dirty enough to be clogged, no picture will be played back. This can easily be determined if, during playback of a known good tape, there is good sound, but no picture (picture is extremely snowy). If this is the case, use a high quality head cleaning system or have them cleaned professionally.





VIDEO HEAD CLEANING Good P

Video head cleaning is needed when the playback picture becomes unclear. This signifies that the heads are getting dirty and can occur when playing poor quality or damaged tapes. If the heads require cleaning, use a equivalent high quality chemical non-abrasive (wet) head cleaning tape or have them cleaned professionally. If playing a head cleaning tape in the VCR once does not improve the picture, play it several times before requesting service.

DO NOT ATTEMPT TO CLEAN THE VIDEO HEADS OR SERVICE THE UNIT BY REMOVING THE TOP COVER.

NOTES: • Video heads may eventually wear out and should be replaced when they fail to produce clear pictures.
• To help prevent video head clogging, use only good quality VHS tapes. Discard worn out tapes.

SPECIFICATIONS

TELEVISION	·		
Picture tube:	Type 13 (335.4 mm diagonal)		
Tuner type:	Quartz PLL frequency synthesized		
Receiving channels:	VHF 2-13		
Ŭ	UHF 14-69		
	Cable TV 14-36 (A)-(W)		
	37-59 (AÁ)-(WW)		
	60-85 (AAA)-(ZZZ)		
	86-94 (86)-(94)		
	95-99 (A-5)-(A-1)		
	100-125 (100)-(125)		
	01 (5A)		
Antenna input:	VHF/UHF In 75 ohms coaxial		
Speaker:	1-1/2 x 2-11/16 inches (38 x 69 mm), 8 ohm		
Audio output power:	1.5W		
VCR			
Video system:	VHS, 2 rotary heads helical scanning system		
Video signal:	NTSC color		
Cassette tape:	VHS		
Audio track:	1 track		
Tape speed:	SP: 33.35 mm/sec.		
· ·	SLP: 11.12 mm/sec.		
F.FWD/REW time:	F.FWD: Approx. 4 minutes 50 seconds (T-120 cassette) at 25°C (77°F)		
	REW: Approx. 2 minutes 30 seconds (T-120 cassette) at 25°C (77°F)		
Speed search:	SP 3 & 5 x normal speed		
	SLP 9 & 15 x normal speed		
GENERAL			
Power source:	AC 120V 60Hz		
Power consumption:	65 Watts		
Dimensions:	Width: 14-1/4 inches (362 mm)		
	Height: 15-1/16 inches (382 mm)		
	Depth: 14-3/8 inches (365 mm)		
Weight:	24.3 lbs. (11 kg)		
Terminals:	Video In: (RCA) 1 Vp-p/75 ohm		
	Audio In: (RCA) –8 dBm/50k ohm		
Storage temperature:	-20°C to 60°C (-4°F to 140°F)		
Operating temperature:	5°C to 40°C (41°F to 104°F)		
Remote control:	Infrared, direct access, 2 x AAA batteries		
Accessories:	300-75 ohm matching transformer		
	Remote control		
[Batteries (2 x AAA)		
~			

Specifications are subject to change without notice.

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Tape Speed shown is approximate.





LIMITED WARRANTY TOSHIBA COMBINATION TELEVISION AND VIDEO CASSETTE RECORDER

Toshiba America Consumer Products, L.L.C. ("TACP") makes the following limited warranties. These limited warranties extend to the original consumer purchaser or any person receiving this set as a gift from the original consumer purchaser and to no other purchaser or transferee.

Limited Ninety (90) Day Warranty

TACP warrants this product and its parts against defects in materials or workmanship for a period of ninety (90) days after the date of original retail purchase. During this period, TACP will repair a defective product or part, without charge to you. You must deliver the entire set to an Authorized TACP Service Station. You pay for all transportation and insurance charges for the set to and from the Service Station.

Limited One (1) Year Warranty

TACP further warrants the parts in this product against defects in materials or workmanship for a period of one year after the date of original retail purchase. During this period TACP will replace a defective part without charge to you, except that if a defective part is replaced after ninety (90) days from the date of original retail purchase you pay labor charges involved in the replacement. You must also deliver the entire product to a TACP Authorized Service Station. You are responsible for all transportation for the set to and from the Service Station.

Limited Two (2) Year Warranty of Picture Tube

TACP further warrants the picture tube in this product against defects in materials or workmanship for a period of two (2) years after the date of original retail purchase. During this period, TACP will replace a defective picture tube without charge to you except that if a defective picture tube is replaced after ninety (90) days from the date of the original retail purchase, you pay labor charges involved in the replacement. You are responsible for all transportation and insurance charges for the set to and from the Service Station.

Rental Units

The warranty for rental units begins with the first rental or thirty (30) days from the date of shipment to the rental firm, whichever comes first.

Commercial Units

Products sold and used for commercial use have a limited ninety (90) day warranty for all parts, labor and picture tube.

Owner's Manual and Demographic Card

You should read this owner's manual thoroughly before operating this product. You should complete and mail the enclosed Demographic card within ten days after you, or the person who has given you this product as a gift, purchased this product. This is one way to enable TACP to provide you with better customer service and improved products. Failure to return the Demographic card will not affect your rights under this warranty.

Your Responsibility

The above warranties are subject to the following conditions:

- (1) You must retain your bill of sale or provide other proof of purchase.
- (2) All warranty servicing of this product must be made by an Authorized TACP Service Station.
- (3) These warranties are effective only if the product is purchased and operated in the U.S.A. or Puerto Rico.
- (4) Labor service charges for set installation, set up, adjustment of customer controls and installation or repair of antenna systems are not covered by this warranty. Reception problems caused by inadequate antenna systems are your responsibility.
- (5) Warranties extend only to defects in materials or workmanship as limited above and do not extend to any product or parts which have been lost or discarded by you or to damage to products or parts caused by misuse, accident, damage caused by Acts of God, such as lightning or fluctuations in electric power, improper installation, improper maintenance or use in violation of instructions furnished by us; or to units which have been altered or modified without authorization of TACP.





How to Obtain Warranty Service

If after following all of the operating instructions in this manual and checking the section "Problems and troubleshooting" and you still find that service is needed;

- (1) Call the TACP toll free number 1-800-631-3811 after you find a defective product or part to find the nearest Toshiba Authorized Service Station.
- (2) Please present your bill of sale or other proof to the Authorized Service Station. "TACP Authorized Service Station personnel will come to your home when warranty service is required. Depending on the type of repair required, the service will either be performed in your home or the set will be taken to the TACP Authorized Service Station for repair and returned to your home at no cost to you".

In the Continental United States contact:



All warranties implied by state law, including the implied warranties of merchantability and fitness for a particular purpose, are expressly limited to the duration of the limited warranties set forth above. With the exception of any warranties implied by state law as hereby limited, the foregoing warranty is exclusive and in lieu of all other warranties, guarantees, agreements and similar obligations of manufacturer or seller with respect to the repair or replacement of any parts. In no event shall TACP be liable for consequential or incidental damages.

No person, agent, distributor, dealer or company is authorized to change, modify or extend the terms of these warranties in any manner whatsoever. The time within which action must be commenced to enforce any obligation of TACP arising under this warranty or under any statute, or law of the United States or any state thereof, is here by limited to 90 days from the date you discover or should have discovered, the defect. This limitation does not apply to implied warranties arising under state law.

This warranty gives you specific legal rights and you may also have other rights which may vary from state to state. Some states do not allow limitation on how long an implied warranty lasts, when an action may be brought, or the exclusion or limitation of incidental or consequential damages, so the above provisions may not apply to you.



ATTENTION CANADIAN CONSUMERS:

Canadian consumers are requested to complete the special Canadian "Warranty Registration Form" enclosed, and forward this completed form with a copy of bill of sale to TOSHIBA OF CANADA to "Register and Validate" their warranty.

Products purchased in the U.S.A. and used in Canada are not covered by these warranties. Products purchased in Canada and used in the U.S.A. are not covered by these warranties. Rev. 09-01-98

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