



Operating Instructions
ИНСТРУКЦИЯ ПО ЭКСПЛУАТАЦИИ

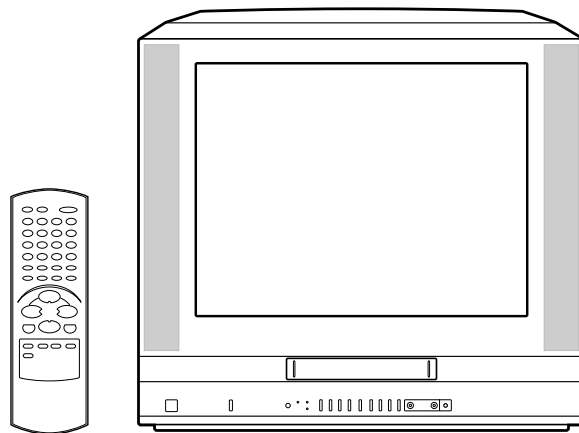
TOSHIBA

**COMBINATION 21" FLAT COLOR TELEVISION
AND VIDEO CASSETTE RECORDER**

**21"/54 см ПЛОСКОЭКРАННЫЙ ЦВЕТНОЙ
ТЕЛЕВИЗОР И ВИДЕОМАГНИТОФОН В ОДНОМ
КОРПУСЕ (МОНОБЛОК)**

ENGLISH
РУССКИЙ

VTV21FL3



**ATTENTION
ВНИМАНИЕ**

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

Если вы приобрели универсальный пульт дистанционного управления, для получения соответствующих управляющих кодов обращайтесь к производителю пульта.



Before operating the unit, please read this manual thoroughly.

Перед использованием устройства, пожалуйста, внимательно прочитайте эту инструкцию.





ENGLISH

IMPORTANT

Unauthorized recording of copyright television programs, films, video tapes and other materials may infringe copyright laws.

WARNING

To prevent fire or shock hazard, do not expose this equipment to rain or moisture.

MAINS SUPPLY

This unit is designed to operate from AC 110-240V 50/60Hz household mains supply.

HQ

This TV/VCR is equipped with HQ (High Quality) recording capability. A built-in detail enhancer is used to boost the recorded signal for cleaner, sharper images and maximum picture playback.





ENGLISH

FEATURES

- Flat Color TV with Video Cassette Recorder
- HQ(High Quality)
- Infrared TV/VCR Remote Control
- 1 Month, 8 Programs Timer
- One-Touch Timer Recording (OTR)
- 30 Minutes Back Up
- Real Time Tape Counter
- NTSC Playback Recording
- On-Screen Programming
- Picture Control Adjustments
- TV Monitor
- Video Index Search System
- Digital Auto Tracking
- Auto Head Cleaning
- Programmable ON/OFF Timer
- Auto Power On/Auto Play
- Auto Rewind/Auto Eject
- Dual Picture Search
- 2 Speed (SP/LP) Record/Playback
- On Screen 2 Languages Display
- Programmable TV Sleep Timer
- Auto Repeat Play

CONTENTS

PREPARATION	
PRECAUTIONS	2
LOCATION OF CONTROLS	4
REMOTE CONTROL	5
ANTENNA CONNECTIONS	7
POWER SOURCE	7
TV OPERATION	
ON-SCREEN LANGUAGE SELECTION	8
TUNING THE TV CHANNEL	9
TO SET THE CLOCK	12
TV OPERATION	13
PICTURE CONTROL ADJUSTMENTS	15
TO SET THE ON TIMER	17
TO SET THE OFF TIMER	18
PLAYBACK	
LOADING AND UNLOADING THE VIDEO CASSETTE TAPE	19
PLAYBACK	20
SPECIAL PLAYBACK	21
RECORDING	
RECORDING A TV PROGRAM	23
TIMER RECORDING	25
OTHER FUNCTIONS FOR TIMER RECORDING	27
ONE-TOUCH TIMER RECORDING (OTR)	29
OTHER FUNCTIONS	
USING THE REAL TIME TAPE COUNTER	30
USING ZERO RETURN	31
VIDEO INDEX SEARCH SYSTEM (INDEX)	32
DUPLICATING A VIDEO TAPE	33
NTSC RECORDING	34
BEFORE REQUESTING SERVICE	35
RECEPTION DISTURBANCE	37
SPECIFICATIONS	38



PRECAUTIONS

MOISTURE CONDENSATION

If the unit is suddenly moved from a cold place to a warm place, moisture may form inside the unit. In this case, do not operate it for two to three hours.

■ WHAT IS MOISTURE CONDENSATION?

When cold water 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.

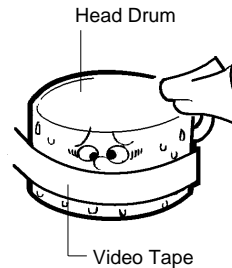
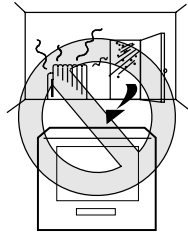
■ MOISTURE WILL CONDENSE ON THE UNIT IN THE FOLLOWING CASES;

- When you move this TV/VCR from a cold to a warm place.
- After heating a cold room or under extremely humid conditions.

■ WHEN YOU EXPERIENCE THE ABOVE CONDITIONS,

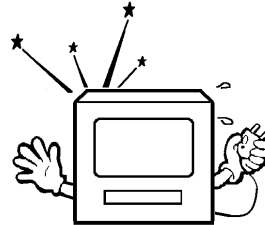
Plug the power cord into an AC outlet, press the POWER button to turn on and leave the unit at room temperature until moisture condensation disappears.

Depending on the surrounding conditions, this may take two or three hours.

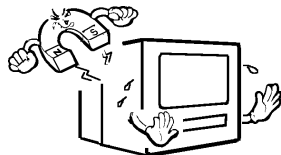


Under certain conditions, such as low humidity or walking across wool carpet, you may experience a static discharge when touching the TV/VCR. If this happens and it fails to function, follow the procedure below.

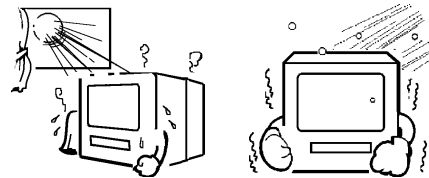
- 1) Unplug the TV/VCR from the AC outlet.
- 2) Wait for static charge to disappear, this may take two to three hours.
- 3) Re-plug the unit again.



Do not place the unit on or near appliances which may cause electromagnetic interference e.g. TV or hi-fi speakers, etc. Doing so may affect operation of unit causing erratic playing or recording, picture or sound distortion, or noise.

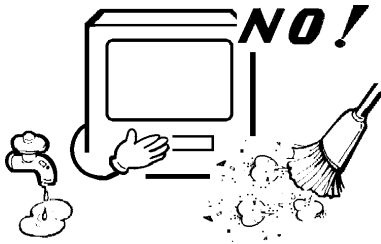


Avoid extreme heat and cold.

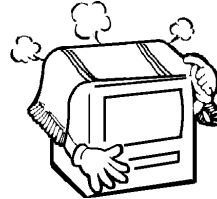




Avoid extreme moisture and dust.



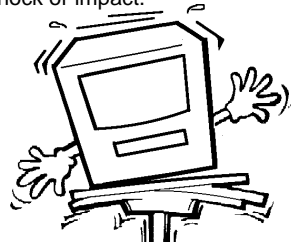
The ventilation holes prevent overheating. Do not block or cover these holes. Especially avoid covering the holes with soft materials such as cloth or paper.



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.



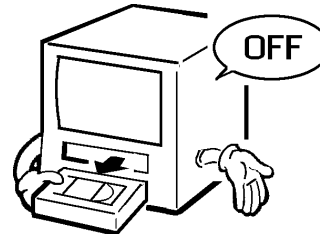
Place the unit on a flat, stable, level surface, and never subject it to violent shaking or any other shock or impact.



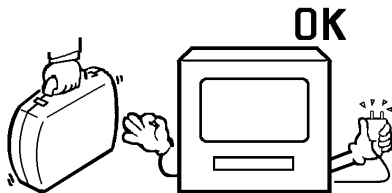
Keep the unit away from flower vases, sink etc. Liquids spilled into the unit can cause serious damages. Switch OFF the Power Supply to the unit and consult a qualified service personnel before attempting to use the unit again.



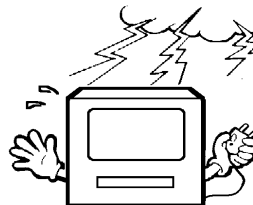
When you finish operating the unit, always unload the cassette and turn off the power.



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



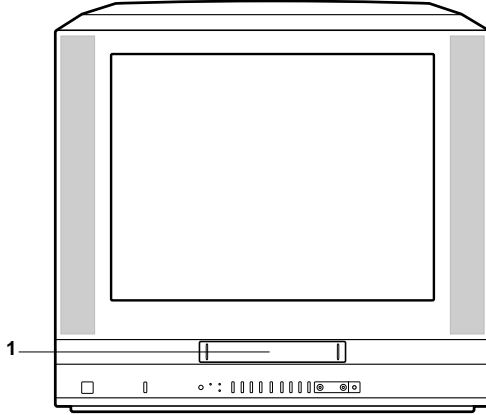
To protect the unit during a thunder storm, unplug the AC power cord from the wall outlet and disconnect the antenna.



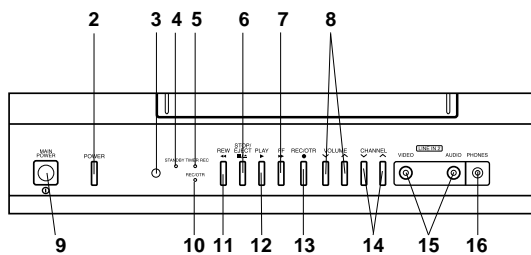
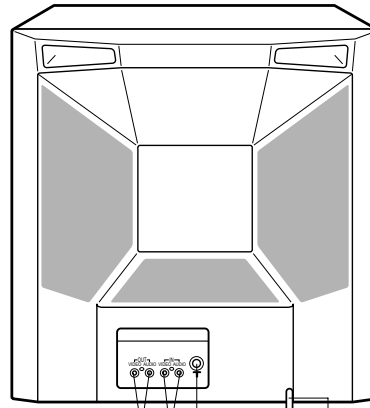


LOCATION OF CONTROLS

FRONT



REAR



DESCRIPTION OF CONTROLS

FRONT:

- 1. Cassette Loading Slot** - To insert or remove a video tape.
- 2. POWER Button** - Press to turn the TV/VCR on or off.
- 3. Remote Sensor** - Signals from the Remote Control are received here.
- 4. STANDBY Indicator** - Lights up when the Main Power switch is turned on.
- 5. TIMER REC Indicator** - Lights up when the TIMER REC button is pressed.
- 6. STOP/EJECT Button** - Press once to stop the tape in any mode. Press again to eject the tape.
- 7. F.F (Fast Forward) Button** - In the Stop mode, this button rapidly winds the tape forward. In the Play mode, this button activates forward search.
- 8. VOLUME \wedge/\vee Buttons** - Press to raise or lower the volume of the sound.
- 9. Main Power switch** - Turn the TV/VCR power on or off completely.
- 10. REC/OTR Indicator** - Lights up when the TV/VCR is recording.
- 11. REW (Rewind) Button** - In the Stop mode, this button rapidly winds the tape backwards. In the Play mode, this button activates reverse search.
- 12. PLAY Button** - Press to play a prerecorded tape.

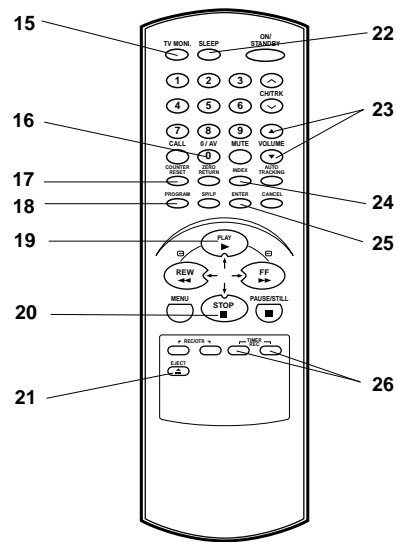
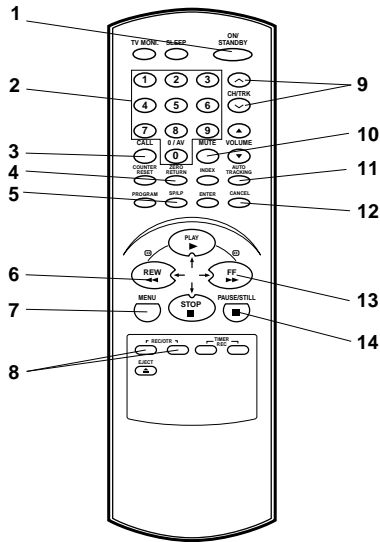
- 13. REC/OTR Button** - Press once to start normal recording. Additional presses activate One-Touch Timer Recording.
- 14. CHANNEL \wedge/\vee Buttons** - Press to select a channel for viewing or recording.
- 15. AUDIO/VIDEO IN Jack (LINE IN 2)** - Audio and video signal cables from an external source can be connected here.
- 16. PHONES socket** - Plug monaural headphones or an earphone with a 3.5 mm miniplug into this socket for private listening.

REAR:

- 17. AUDIO/VIDEO OUT Jacks** - Used to output audio and video signals to a TV, amplifier or VCR.
- 18. AUDIO/VIDEO IN Jacks** - Audio and video signal cables from an external source can be connected here.
- 19. VHF/UHF Antenna Socket** - Connect the 75 ohm coaxial cable from the antenna or Cable TV service to this jack.
- 20. AC Power Cord** - Connect to AC outlet.



REMOTE CONTROL



ENGLISH

DESCRIPTION OF CONTROLS

1. **ON/STANDBY Button** - Press to turn the TV/VCR on. Press again to turn the TV/VCR off.
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. **ZERO RETURN Button** - Used to stop the tape when the counter reaches 00:00:00.
5. **SP/LP Button** - Sets the tape speed for recording.
6. **REW (Rewind) / ← Button** - In the Stop mode, this button rapidly winds the tape backwards. In the Play mode, this button activates reverse search. Used to set or adjust in the menu mode.
7. **MENU Button** - Press to display the On-Screen menu function.
8. **REC/OTR Buttons** - Press both buttons at the same time once to start normal recording. Additional presses activate One Touch Timer Recording.
9. **CH/TRK ^ / ∨** - Press the ^ button to change a higher numbered channel set into memory. Press the ∨ button to change to a lower numbered channel set into memory. During playback, they are used to adjust tracking manually.
10. **MUTE Button** - Press to turn off the sound. Press again to turn the sound back on.
11. **AUTO TRACKING Button** - Automatic adjustment of tracking to minimize picture noise during playback.
12. **CANCEL Button** - Used to clear the selected program and to move the cursor backward.
13. **FF / → Button** - In the Stop mode, this button rapidly winds the tape forward. In the Play mode, this button activates forward search. Used to set or adjust in the menu mode.
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. **TV MONI. Button** - Used to temporarily view a TV channel selected on the TV/VCR while in the playback mode.
16. **AV Button** - Select input signal source when recording from an external unit.
17. **COUNTER RESET Button** - Used to reset the counter to 00:00:00.
18. **PROGRAM Button** - Press to confirm the programmed timer recording and ON/OFF timer.
19. **PLAY / ↑ Button** - Press to play a prerecorded tape. Used to set or adjust in the menu mode.
20. **STOP / ↓ Button** - Press once to stop the tape. Used to set or adjust in the menu mode.
21. **EJECT Button** - Press to eject the tape.
22. **SLEEP Button** - Sets the TV to turn off automatically after up to 120 minutes.
23. **VOLUME ▲ / ▼ Buttons** - Press the ▲ button to increase, or the ▼ button to decrease the volume level.
24. **INDEX Button** - Used to search for the INDEX mark.
25. **ENTER Button** - Use to enter information in the menu mode.
26. **TIMER REC Buttons** - Used to set the TV/VCR to start recording at a preset time.

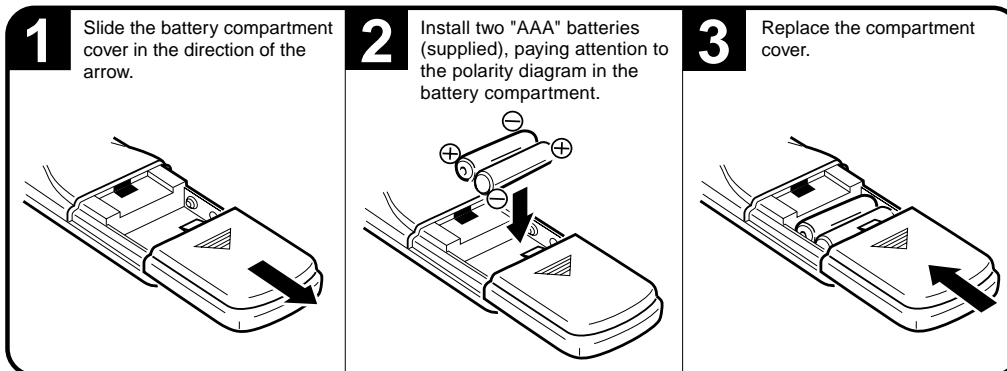




REMOTE CONTROL

(CONTINUED)

BATTERY INSTALLATION



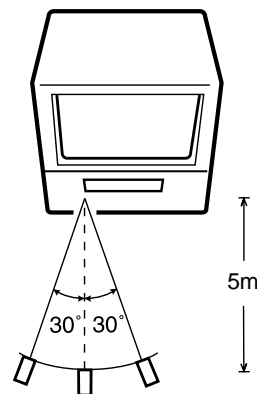
BATTERY CAUTIONS

- Use two "AAA/R03/UM-4" size penlight batteries for the remote control handset.
- The batteries may last approximately one year depending on how much the remote control is used. For best performance it is recommended batteries be replaced on a yearly basis, or when remote operation becomes erratic.
- Do not mix old and new batteries.
- Weak batteries can leak and severely damage the remote control transmitter. Always remove batteries as soon as they become weak.

REMOTE CONTROL OPERATION

The following cases, the remote control may not operate:

- When there is an obstacle between your TV/VCR and the remote control.
- If you try to operate your TV/VCR from a distance greater than 5 metres.
- If you try to operate your TV/VCR away from the normal viewing angle (over 30° either side of the remote sensor).



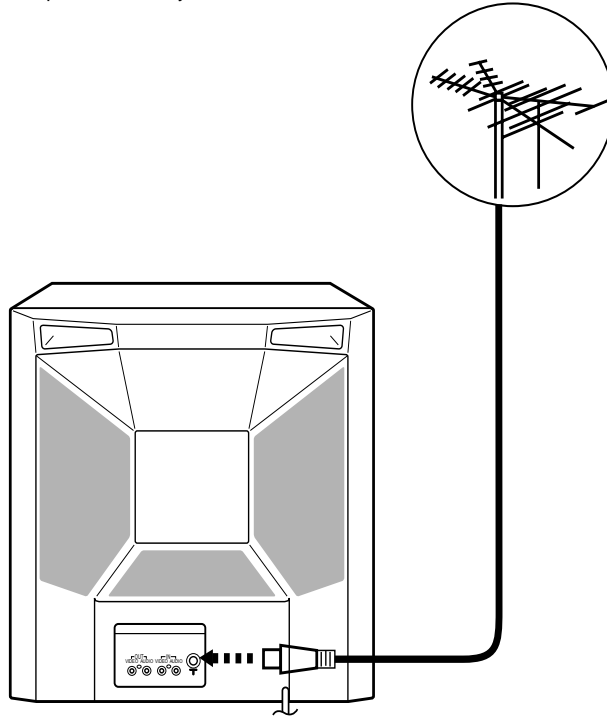
NOTE: When direct sunlight, an incandescent lamp, fluorescent lamp or any other strong light shines on the remote sensor, the remote control operation may be unstable.





ANTENNA CONNECTIONS

Connect an outdoor antenna to the antenna socket at the rear panel as shown below.
For all antenna circuit problems, please consult your local dealer.



ENGLISH

EXTERNAL ANTENNA

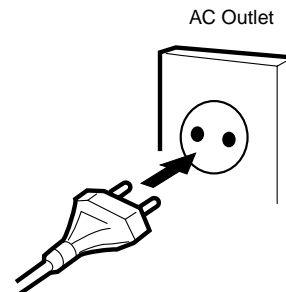
The type of antenna required depends on the position of your home, its distance from the transmitter and local interference. If you do not have an antenna and you are uncertain of what to buy, you should seek the advice of a local antenna contractor.

POWER SOURCE

TO USE AC POWER

Use the AC line cord provided for operation on AC. Insert the AC cord plug into 110-240V, 50/60Hz AC outlet.

After you have connected the Antenna and Power source, you must check that your TV/VCR is properly installed.
Press MAIN POWER switch on the front panel, the red standby indicator will light. Turn on your TV/VCR by pressing POWER (ON/STANDBY) on the front panel or on the remote control, the red standby indicator goes off.





ON-SCREEN LANGUAGE SELECTION

The on-screen menu can display two languages, English or Russian.

1 Make sure that the MAIN POWER switch on the front panel is pushed in (ON). (The STANDBY indicator lights up.)

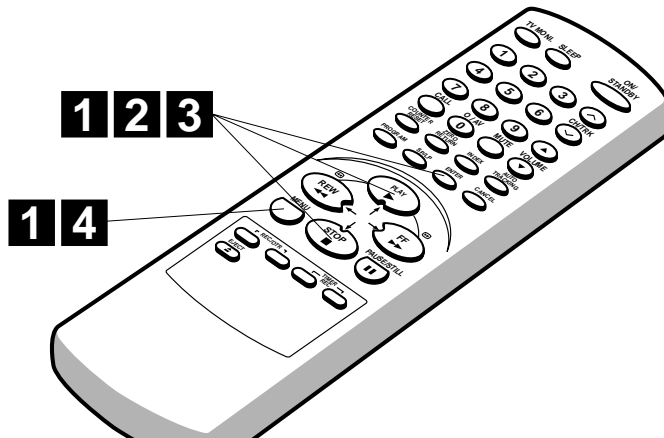
2 Press the ON/STANDBY button to turn on the TV/VCR. (The STANDBY indicator goes off.)

1 Press the MENU button. Press the \uparrow or \downarrow button to select the SYSTEM SETUP mode. Then press the ENTER button.

2 Press the \uparrow or \downarrow button to select the LANGUAGE mode. Then press the ENTER button.

SELECT : \blacktriangle / \blacktriangledown
 ENTER : ENTER
 EXIT : MENU

SYSTEM SETUP
 \blacktriangle CLOCK SET
 \blacktriangledown LANGUAGE/RBYK
 \blacktriangle COLOUR SYSTEM [AUTO]
 SELECT : \blacktriangle / \blacktriangledown
 ENTER : ENTER
 EXIT : MENU



3 Press the \uparrow or \downarrow button to select the desired language. Then press the ENTER button.

4 Press the MENU button to return to normal TV screen.

LANGUAGE/RBYK
 \blacktriangledown ENGLISH
 \blacktriangle РУССКИЙ
 SELECT : \blacktriangle / \blacktriangledown OK : ENTER

NOTE: When you plug the AC mains lead into the mains socket for the first time the MENU screen at the step 1 or step 2 will be skipped and move to the language selecting screen at the step 3. But this is not a fault, please select the language at first before operating this unit.

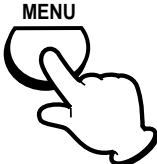






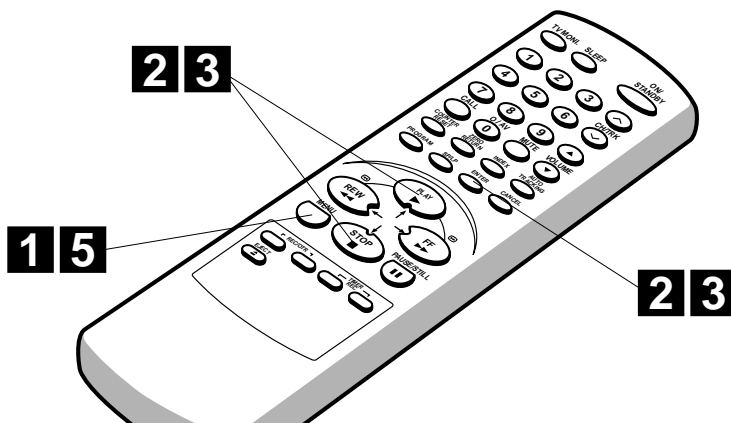
TUNING THE TV CHANNELS


Before you can view a television station it must be set in your television memory. This TV/VCR can receive up to 110 channels by presetting channels into memory.

AUTO TUNING

<p>1 Press the MENU button.</p> 	<p>2 Press \uparrow/\downarrow button to select the CHANNEL SETUP mode, then press the ENTER button.</p>  <div data-bbox="762 750 946 875"> <ul style="list-style-type: none"> ■ TIMER REC SET ▼/▲ CH/CR SETUP ■ CHANNEL SETUP ▼/▲ TV SETUP ■ SYSTEM SETUP <p>SELECT : \uparrow/\downarrow ENTER : ENTER EXIT : MENU</p> </div>	<p>3 Press \uparrow/\downarrow button to select the AUTO TUNING mode, then press the ENTER button.</p>  <div data-bbox="1102 750 1286 875"> <ul style="list-style-type: none"> ■ CHANNEL SETUP ▼/▲ CH TUNING ■ AUTO TUNING ▼/▲ CH ALLOCATION <p>SELECT : \uparrow/\downarrow ENTER : ENTER EXIT : MENU</p> </div>
--	--	--

ENGLISH



<p>4 The Auto Tuning will start and begin memorizing all the channels in sequence available in your area. This will take approximately 4 minutes.</p> <div data-bbox="584 1565 767 1691"> <p style="text-align: center;">AUTO TUNING</p> </div>	<p>5 When the Auto Tuning is finished, the CHANNEL SETUP screen will appear. Then press the MENU button to return to the normal screen.</p>  <div data-bbox="1090 1565 1273 1691"> <ul style="list-style-type: none"> ■ CHANNEL SETUP ▼/▲ CH TUNING ■ AUTO TUNING ▼/▲ CH ALLOCATION <p>SELECT : \uparrow/\downarrow ENTER : ENTER EXIT : MENU</p> </div>
--	--





TUNING THE TV CHANNELS

(CONTINUED)

TO EXCHANGE THE TV STATIONS TO ANOTHER CHANNEL POSITION

EXAMPLE : Exchange the TV stations between position 4 and 6.

1 Press the MENU button. Press \uparrow/\downarrow button to select the CHANNEL SETUP mode, then press the ENTER button.

TIMER REC SET
VCR SETUP
CHANNEL SETUP
TVY SETUP
SYSTEM SETUP

SELECT : \uparrow/\downarrow
OK : ENTER
EXIT : MENU

2 Press \uparrow/\downarrow button to select the CH ALLOCATION mode, then press the ENTER button.

CHANNEL SETUP

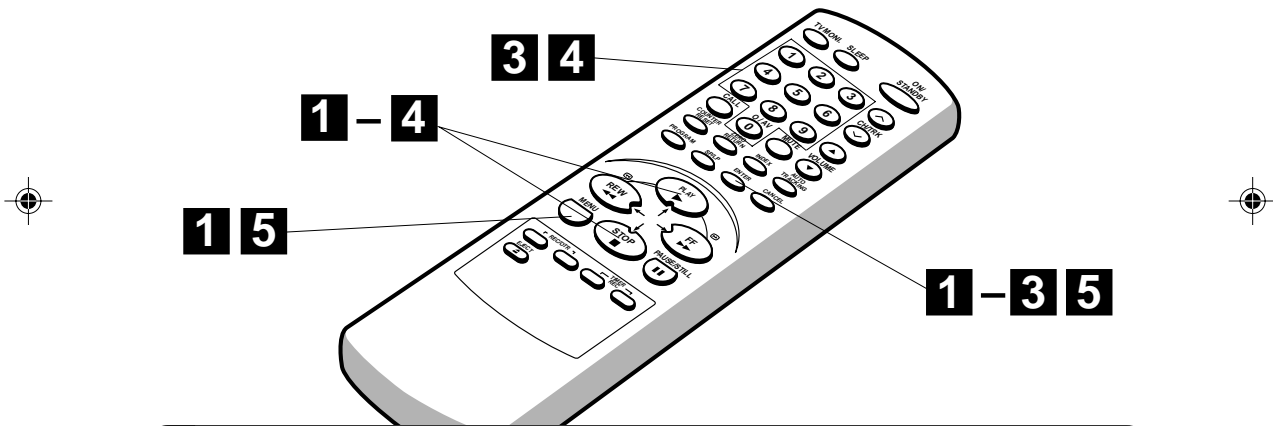
CH TUNING
AUTO TUNING
CH ALLOCATION

SELECT : \uparrow/\downarrow
OK : ENTER
EXIT : MENU

3 Press \uparrow/\downarrow or number button to select the TV station to be moved. Then press the ENTER button.

CH ALLOCATION CH 4

SET : \uparrow/\downarrow 0-9
OK : ENTER
EXIT : MENU



4 Press \uparrow/\downarrow or number button to select the position number which the selected TV station is to be moved.

CH ALLOCATION CH 6

SET : \uparrow/\downarrow 0-9
OK : ENTER
EXIT : MENU

5 Press the ENTER button.

CH ALLOCATION CH 4

SET : \uparrow/\downarrow 0-9
OK : ENTER
EXIT : MENU

Press the MENU button to return to the normal screen.





In certain areas of the countries which have poor reception the Automatic Tuning System may not tune your TV/VCR to the strongest broadcast signal. If you are not satisfied with the automatic tuning you may manually tune your TV/VCR.

MANUAL TUNING

ENGLISH

1 Press the MENU button.
Press the ↑ or ↓ button to select the CHANNEL SETUP mode, then press the ENTER button.

TIMER REC SET
VCR SETUP
CHANNEL SETUP
TV SETUP
SYSTEM SETUP

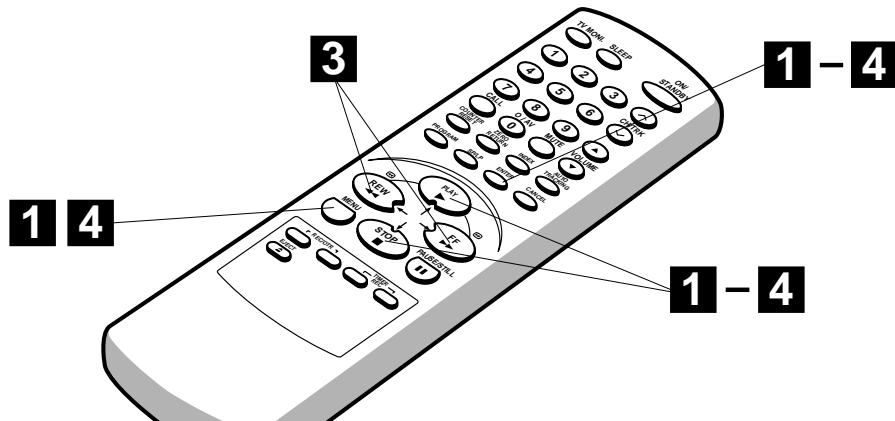
SELECT : ▲▼
ENTER : ENTER
EXIT : MENU

2 Press the ↑ or ↓ button to select the CH TUNING mode, then press the ENTER button.

CHANNEL SETUP

CH TUNING
AUTO TUNING
CH ALLOCATION

SELECT : ▲▼
ENTER : ENTER
EXIT : MENU



3 Press the → button to search up the waveband or ← button to search down the waveband. Each time a station is found the search will stop. Press ← or → button to continue searching until the station you want is found, then press ENTER button to store the station you have selected.

If you cannot get a clear picture, press the ↑ or ↓ button until the picture becomes clear. When you have a clear crisp picture store this setting by pressing ENTER button.

SEARCH : ▲▼ / F.TUNE : ▲▼
EXIT : MENU

4 Press the ↑ or ↓ button to select B/G or D/K when it flashes and press ENTER button. Press the ↑ or ↓ button to select your required channel number (1-110) when channel number flashes. Press ENTER button to store the channel number. The TV/VCR channels can be preset to different TV broadcast channels at anytime simply repeat steps 3-4.

When all required stations have been set, press the MENU button to return to normal TV screen.

CH : 11 / 0-9
OK : ENTER EXIT : MENU

NOTE: TO SKIP A CHANNEL

To skip unnecessary channels when you press the CH/TRK button, select the channel you want to skip. Then press the CANCEL button so that the channel number flashes.

To cancel the skip setting, select the skipped channel using the Direct Channel Selection buttons, then press the CANCEL button.





TO SET THE CLOCK

You will be unable to use your TV/VCR properly unless the time and date is set and keeping time correctly. Please note that you will be unable to select TIMER REC SET or ON/OFF TIMER SET from the main menu until you have set the CLOCK.

EXAMPLE: Setting the clock to 11:30, 26th October, 2001.

1 Press the MENU button. Press the **↑** or **↓** button to select the SYSTEM SETUP mode, then press the ENTER button.

■	TIMER REC SET
■	VCR SETUP
■	CHANNEL SETUP
■	TV SETUP
■	SYSTEM SETUP

SELECT : ▲▼
ENTER : ENTER
EXIT : MENU

2 Press the **↑** or **↓** button to select the CLOCK SET mode, then press the ENTER button.

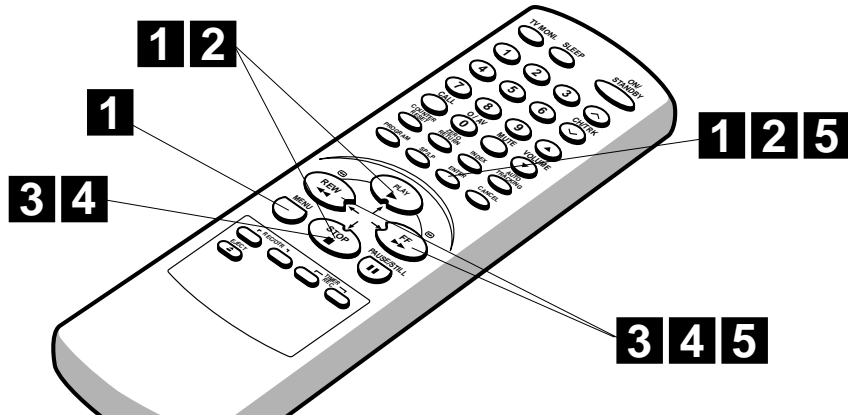
▲	CLOCK SET
▲	LANGUAGE/R3B4K
■	COLOUR SYSTEM [AUTO]

SELECT : ▲▼
ENTER : ENTER
EXIT : MENU

3 Press the **←** or **→** button to select the current day, then press the **↓** button.

CLOCK SET	DAY	26 WED
	MONTH	10
	YEAR	2001
	TIME	0:00

SELECT : ▲▼
SET : ◀▶/0-9
OK : ENTER EXIT : MENU



4 Set the month, year and hour in the same way as in step 3.

CLOCK SET	DAY	26 FRI
	MONTH	10
	YEAR	2001
	TIME	11:30

SELECT : ▲▼
SET : ◀▶/0-9
OK : ENTER EXIT : MENU

5 Press **←** or **→** button to select current minute, then press the ENTER button. The time and day will be displayed.

CLOCK SET	DAY	26 FRI
	MONTH	10
	YEAR	2001
	TIME	11:30

SELECT : ▲▼
SET : ◀▶/0-9
OK : ENTER EXIT : MENU

- NOTES:**
- During a power failure or disconnection of the mains lead the clock and all its programmed setting will remain in the memory for 30 minutes. If the power failure is longer than 30 minutes you will have to reset the present time.
 - If you want to correct the digits while setting, press the **↑** button until the item you want to correct, then press the **←** or **→** button to correct the desired setting.





TV OPERATION




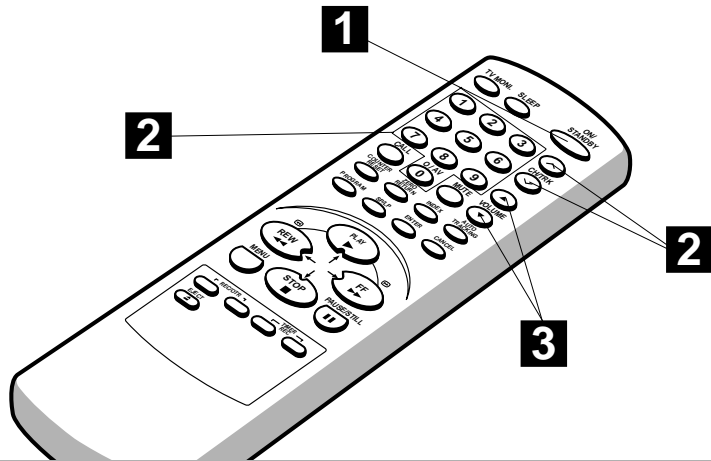
ENGLISH

1 Press the ON/STANDBY button to turn on the TV/ VCR.

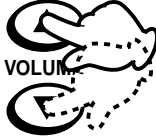
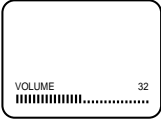
2 Select channels either with the Direct Channel Selection buttons or with the CH buttons.

To select with the Direct channel selection buttons:
 1-9: Press the one of keys 1-9 as required.
 10-110: Press the two or three digits in order from left to right.

To select with the CH buttons:
 Press and release the CH ^ / v button. The channel changes one by one. Hold the button down to scan through unwanted channels.

3 The VOLUME can be adjusted to a desired level by pressing the VOLUME ▲ or ▼ button. The VOLUME level is represented by a green bar on the screen.

NOTE: If the station being viewed stops broadcasting, the TV will shut off after 15 minutes.



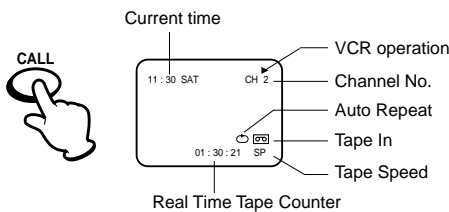


TV OPERATION

(CONTINUED)

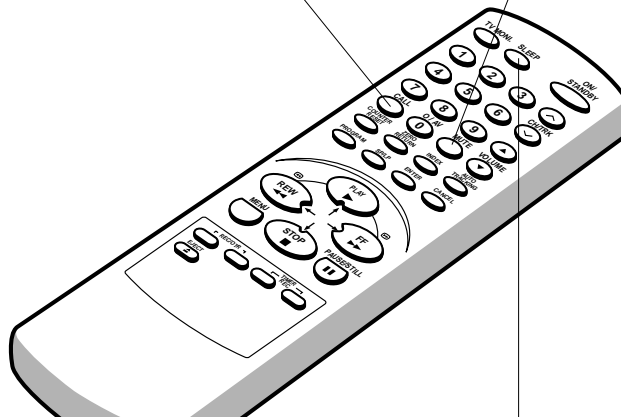
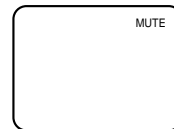
CALL

Press the CALL button. The current time, channel number, real time tape counter and tape operation will be indicated. Press CALL button again to disappear the call display.



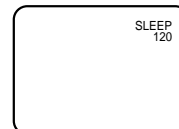
MUTE

To cut off the sound, press this button once. The TV/VCR will be silenced and the symbol "MUTE" will appear on the screen. The muting can be released by pressing the MUTE button again or the VOLUME ▲/▼ buttons.



SLEEP

To set the TV to turn off at a set time, press the SLEEP button on the remote control. The clock will count down 10 minutes each time the button is pressed in the order of 120, 110.....20, 10, 0. After the sleep time is programmed, the display will disappear and will reappear every 10 minutes. To confirm the sleep time setting, press the SLEEP button once and the remaining time will be momentarily displayed. To cancel the sleep time, press the SLEEP button repeatedly until the display turns to 0.



NOTE: If the SLEEP button is pressed when the TV/VCR is in the REC mode, the clock will count down and the picture will shut off at the set time, but the recording continues.





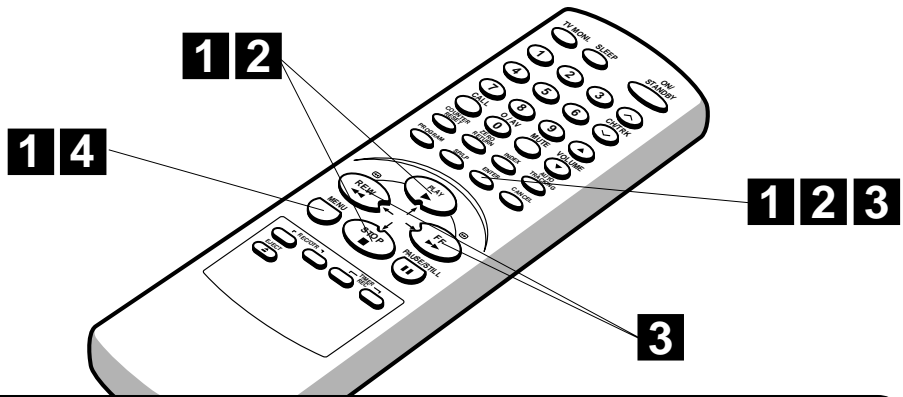
PICTURE CONTROL ADJUSTMENTS

The picture setting have been factory adjusted under optimum signal reception. However, conditions may not be the same in your area. After tuning in the TV/VCR, allow it to warm up for a few minutes. If the picture is not to your liking, make the following adjustments using the remote control.

ENGLISH

1 Press the MENU button.
Press the ↑ or ↓ button to select the TV SETUP mode, then press the ENTER button.

2 Press the ↑ or ↓ button to select the PICTURE mode, then press the ENTER button.



3 Press the ENTER button until your desired PICTURE mode appears e.g. brightness, contrast, color, or sharpness. Then press the ← or → button to adjust the PICTURE. (See the next page for detail.)

4 After finishing the adjustment, press the MENU button to return to normal TV screen.

NOTE: To resume the normal picture adjustment, press the CANCEL button, while in the picture mode menu.

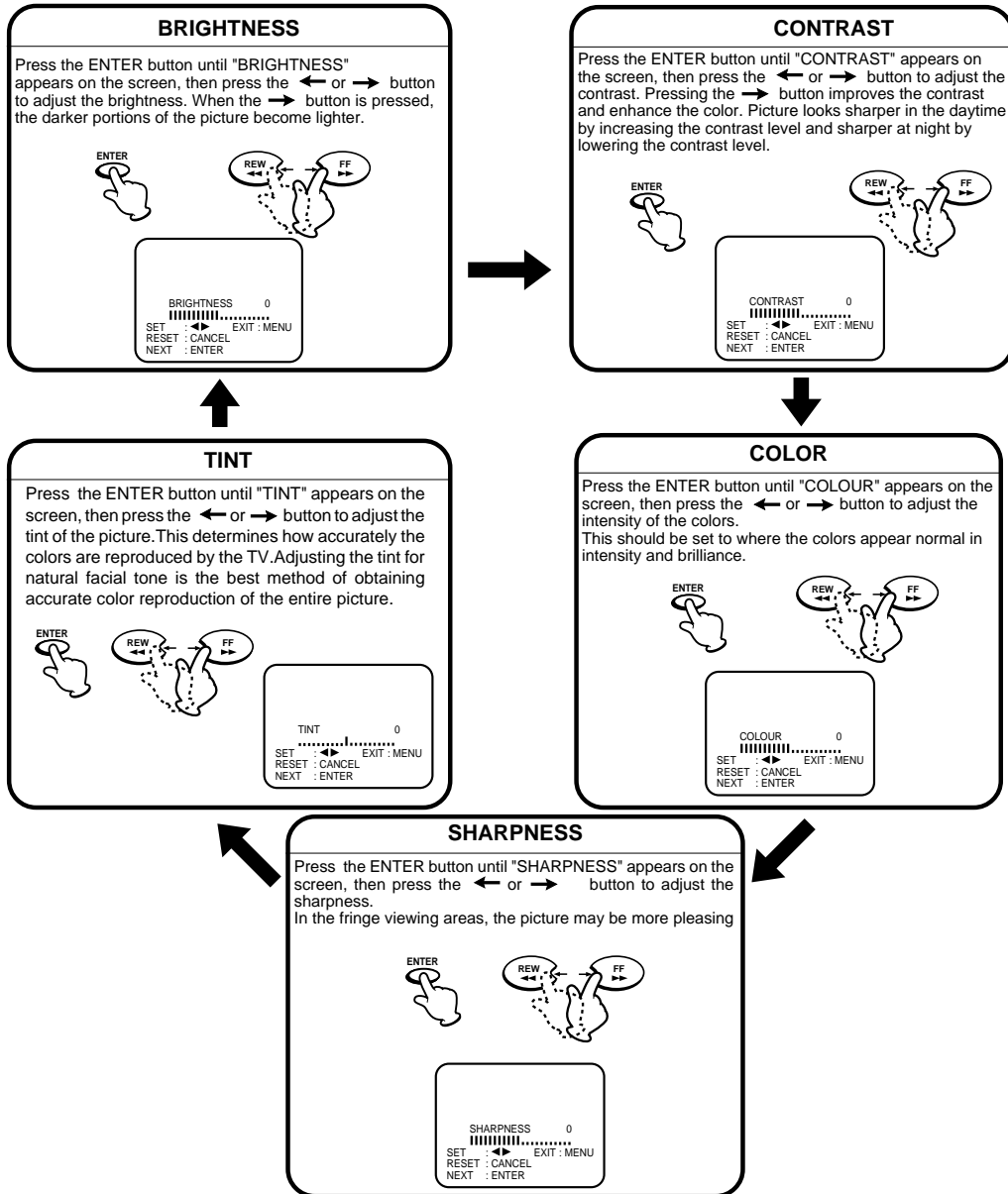




PICTURE CONTROL ADJUSTMENTS

(CONTINUED)

Each time you press the ENTER button, the picture adjustment Screen changes as follows.



- NOTES:**
- The picture settings can only be adjusted by using the ← or → button when they are displayed on the screen.
 - The On-screen display will disappear about one minute after finishing an adjustment .
 - TINT will only appear when NTSC system tape is played back or NTSC signal input to LINE IN (Rear A/V jacks) or LINE IN 2 (Front A/V jacks) is selected.

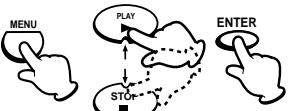




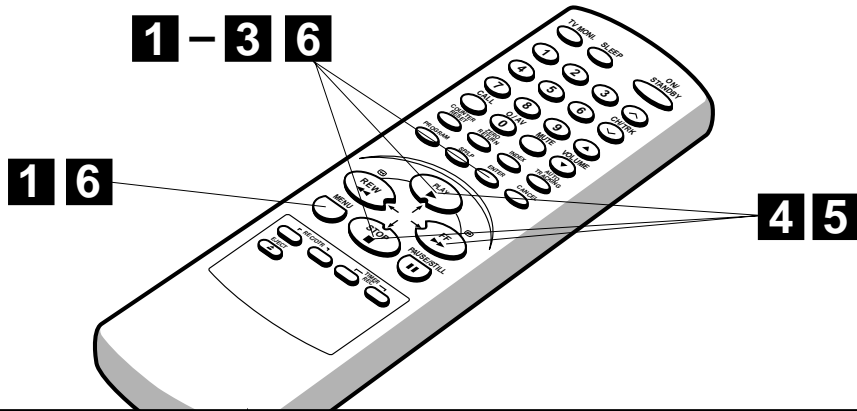
TO SET THE ON TIMER



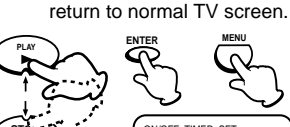
This feature allows you to have the TV automatically turn on at predetermined time. If you program the ON TIMER once the timer will turn on the TV daily at the same time and to the same channel.

EXAMPLE: Turning on the TV to channel 3 at 7:45, MONDAY-FRIDAY.

ENGLISH

<p>1 Press the MENU button. Select the TV SETUP mode using the ↑ or ↓ button, then press the ENTER button.</p>  <div data-bbox="408 703 562 829"> <p>TIMER REC SET VCR SETUP CHANNEL SETUP TV SETUP SYSTEM SETUP</p> <p>SELECT: ▲▼ ENTER: ENTER EXIT: MENU</p> </div>	<p>2 Press the ↑ or ↓ button to select the ON/OFF TIMER SET mode, then press the ENTER button.</p>  <div data-bbox="762 703 916 829"> <p>TV SETUP ON/OFF TIMER SET PICTURE</p> <p>SELECT: ▲▼ ENTER: ENTER EXIT: MENU</p> </div>	<p>3 Press the ↑ or ↓ button to set the ON TIMER mode, then press the ENTER button.</p>  <div data-bbox="1101 703 1255 829"> <p>ON/OFF TIMER SET ON TIMER 0:00 CH 1 SUN-SAT OFF TIMER 0:00</p> <p>CANCEL CANCEL</p> <p>SELECT: ▲▼ ENTER: ENTER EXIT: MENU</p> </div>
---	---	---



<p>4 Press the ↑ or ↓ button to set the desired hour, then press the → button.</p>  <div data-bbox="408 1480 562 1606"> <p>ON/OFF TIMER SET ON TIMER 7:45 CH 1 SUN-SAT OFF TIMER 0:00</p> <p>CANCEL CANCEL</p> <p>SELECT: ▲▼ SET: ▲▼/0-9 OK: ENTER EXIT: MENU</p> </div>	<p>5 Set the desired minute, channel and daily or weekly timer date as in step 4, then press the → button.</p>  <div data-bbox="762 1480 916 1606"> <p>ON/OFF TIMER SET ON TIMER A:46 CH 3 MON-FRI OFF TIMER 0:00</p> <p>CANCEL CANCEL</p> <p>SELECT: ▲▼ SET: ▲▼ OK: ENTER EXIT: MENU</p> </div>	<p>6 Press the ↑ or ↓ button to select the SET mode, then press the ENTER button. Press the MENU button to return to normal TV screen.</p>  <div data-bbox="1101 1480 1255 1606"> <p>ON/OFF TIMER SET ON TIMER 7:45 CH 3 MON-FRI OFF TIMER 0:00</p> <p>CANCEL CANCEL</p> <p>SELECT: ▲▼ SET: ▲▼ OK: ENTER EXIT: MENU</p> </div>
--	--	---

NOTES: • The TV will automatically turn off approximately 1 hour later after the ON TIMER turns on the TV. If you wish to continue watching the TV, press any button to cancel the one hour automatic shut off. This shut off feature prevents the TV from playing continuously if no OFF TIMER is set.

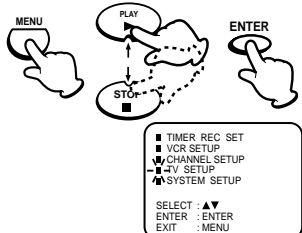
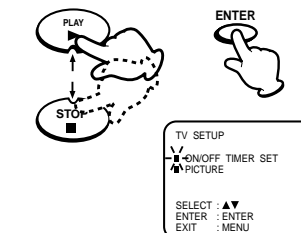
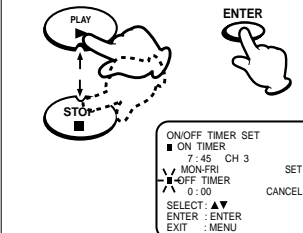
- To cancel the ON TIMER function; Follow above steps 1-5, then press the ↑ or ↓ button to select the CANCEL position. Press the MENU button to return to the TV.
- After setting the ON TIMER, "■" of the OFF TIMER will flash on and off. If you wish to set the OFF TIMER, press the ENTER button then follow the steps 3-5 on page 18.

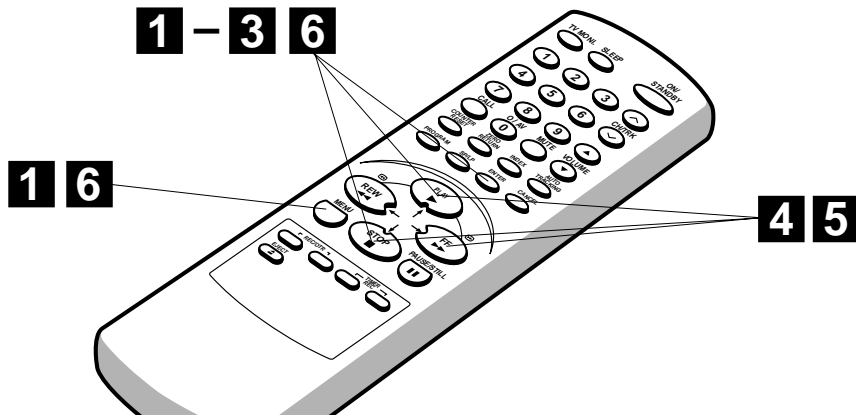


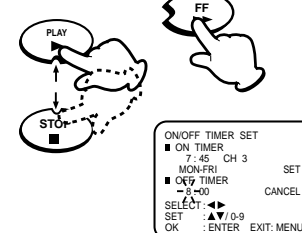
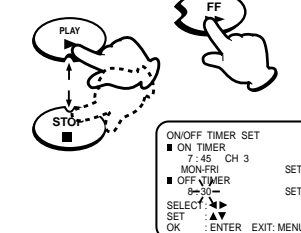
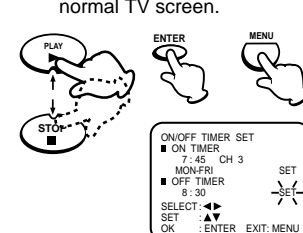
TO SET THE OFF TIMER

This feature allows you to have the TV turn off automatically at a predetermined time. If you program the OFF TIMER once, the TV will be automatically turned off at the same time daily.

EXAMPLE: Turning off the TV at 8:30.

<p>1 Press the MENU button. Select the TV SETUP mode using the ↑ or ↓ button, then press the ENTER button.</p>  <p> MENU PLAY STOP </p> <p> ■ TIMER REC SET ■ VCR SETUP ▾ CHANNEL SETUP ▾ TV SETUP ▾ SYSTEM SETUP </p> <p> SELECT : ▲▼ ENTER : ENTER EXIT : MENU </p>	<p>2 Press the ↑ or ↓ button to select the ON/OFF TIMER SET mode, then press the ENTER button.</p>  <p> PLAY STOP </p> <p> TV SETUP ▾ ON/OFF TIMER SET ▾ PICTURE </p> <p> SELECT : ▲▼ ENTER : ENTER EXIT : MENU </p>	<p>3 Press the ↑ or ↓ button to set the OFF TIMER mode, then press the ENTER button.</p>  <p> PLAY STOP </p> <p> ON/OFF TIMER SET ■ ON TIMER ▾ OFF TIMER MON-FRI 7:45 CH 3 SET OFF TIMER 0:00 CANCEL </p> <p> SELECT : ▲▼ ENTER : ENTER EXIT : MENU </p>
---	---	--



<p>4 Press the ↑ or ↓ button to set the desired hour, then press the → button.</p>  <p> PLAY STOP </p> <p> ON/OFF TIMER SET ■ ON TIMER MON-FRI 7:45 CH 3 SET OFF TIMER 8:00 CANCEL </p> <p> SELECT : ▲▼ SET : → OK : ENTER EXIT: MENU </p>	<p>5 Press the ↑ or ↓ button to set the desired minute, then press the → button.</p>  <p> PLAY STOP </p> <p> ON/OFF TIMER SET ■ ON TIMER MON-FRI 7:45 CH 3 SET OFF TIMER 8:30 SET </p> <p> SELECT : ▲▼ SET : → OK : ENTER EXIT: MENU </p>	<p>6 Press the ↑ or ↓ button to select the SET mode, then press ENTER button. Press the MENU button to return to normal TV screen.</p>  <p> PLAY STOP ENTER MENU </p> <p> ON/OFF TIMER SET ■ ON TIMER MON-FRI 7:45 CH 3 SET OFF TIMER 8:30 SET </p> <p> SELECT : ▲▼ SET : → OK : ENTER EXIT: MENU </p>
--	---	---

- NOTES:**
- If a station being viewed stops broadcasting, the TV will automatically shut itself off after 15 minutes.
 - To cancel the OFF TIMER function:
Follow above step 1-5, then press the ↑ or ↓ button to select the CANCEL position. Press the MENU button to return to the TV.
 - To confirm the ON/OFF TIMER:
Press the PROGRAM button twice to indicate the programs on the screen.





LOADING AND UNLOADING THE VIDEO CASSETTE TAPE

Use only video cassette tapes marked **VHS**.

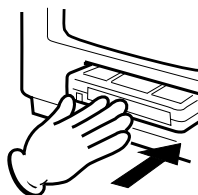
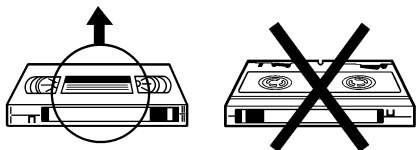
LOADING

Push the center of the tape until it is automatically inserted.

AUTOMATIC PLAY

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

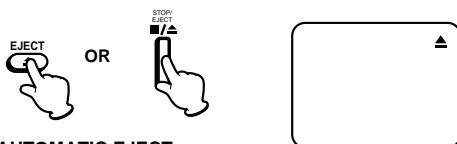
Insert the cassette with its labelled side facing you.
An inverted cassette cannot be inserted.



ENGLISH

UNLOADING

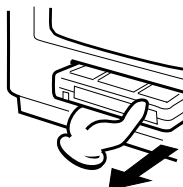
To unload a video cassette, press the EJECT button on the remote control, or press the STOP/EJECT button on the TV/VCR twice. The first press will stop the tape in any mode. The second press will eject the tape.



AUTOMATIC EJECT

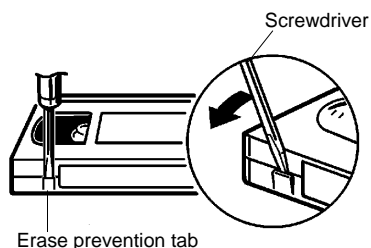
When the VCR is automatically rewinding the tape and reaches its end (AUTO REWIND), the tape will be ejected automatically. (See NOTE on page 24.)

Pull the cassette out.



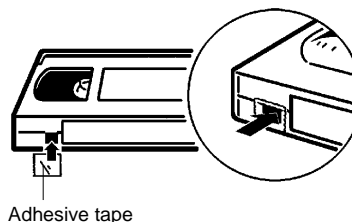
TO PREVENT ACCIDENTAL ERASURE

After recording, break off the erase prevention tab if you do not wish to record over the tape.



TO RECORD AGAIN

Cover the hole with adhesive tape.
Be careful the tape does not extend past the edges of the cassette housing.



NOTES:

- Always eject the tape when not in use.
- The cassette can be ejected even if the ON/STANDBY button is OFF.

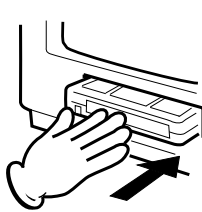
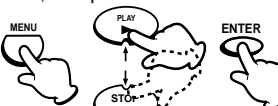
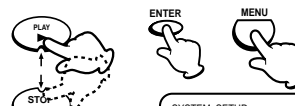




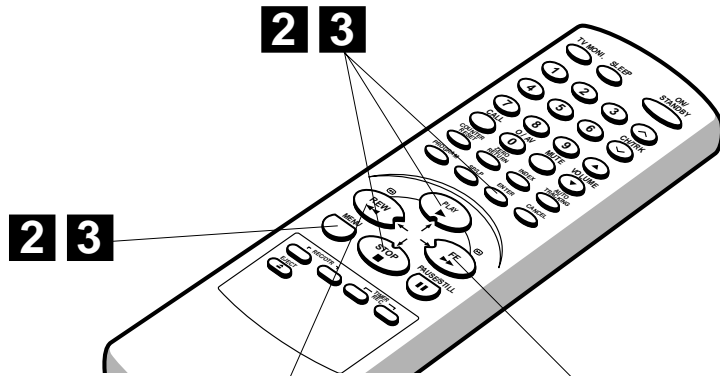
PLAYBACK

To play a pre-recorded cassette tape, select the suitable COLOUR SYSTEM if necessary.

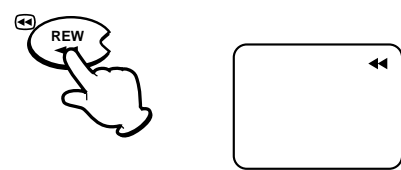
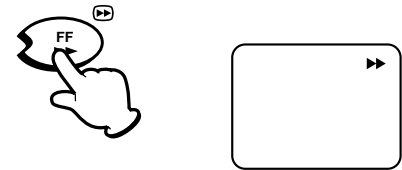
TO START PLAYBACK

<p>1 Insert a pre-recorded cassette tape. Then start the playback.</p> 	<p>2 Press the MENU button. Press the ↑ or ↓ button to select the SYSTEM SETUP mode, then press the ENTER button.</p>  <div data-bbox="739 693 893 808"> <ul style="list-style-type: none"> ■ TIMER REC SET ■ VCR SETUP ■ CHANNEL SETUP ■ TV SETUP ■ SYSTEM SETUP <p>SELECT : ▲▼ ENTER : ENTER EXIT : MENU</p> </div>	<p>3 Press the ↑ or ↓ button to select the COLOUR SYSTEM mode, then press the ←/→ or ENTER button to select [AUTO], [PAL], [MESECAM], [NT3.58] or [NT4.43]. COLOUR SYSTEM usually used in AUTO position.</p>  <div data-bbox="1093 693 1247 808"> <p>SYSTEM SETUP</p> <ul style="list-style-type: none"> ■ CLOCK SET ▲▼ LANGUAGE/R3KIK ▲▼ COLOUR SYSTEM [AUTO] <p>SELECT : ▲▼/▶◀ ENTER : ENTER EXIT : MENU</p> </div> <p>Press the MENU button to return to the normal screen.</p>
---	--	--

NOTE: [NT3.58] and [NT4.43] will appear when AUDIO/VIDEO input position (AV1 or AV2) is selected or during a playback



TO REWIND OR FORWARD THE TAPE RAPIDLY

<p>Press the REW button when in the STOP mode. "◀◀" will appear on the screen.</p> 	<p>Press the FF button when in the STOP mode. "▶▶" will appear on the screen.</p> 
<p>FORWARD/REVERSE PICTURE SEARCH If you want to see the tape program during REW(FF)mode, press down the REW(FF) button. The backward(forward) visual search picture will be seen on the screen. Release the button to return to the REW(FWD) mode.</p>	

NOTES:

With this unit, a NTSC tape recorded in the SLP tape speed can be played back. But there are some points to be observed.

- The quality of the playback picture and sound are not clear.
- Variable speed playback (picture search, still, etc.) can't be performed properly.
- Digital auto tracking may not be performed properly.





SPECIAL PLAYBACK

TO VISUALLY SEARCH FOR DESIRED POINTS

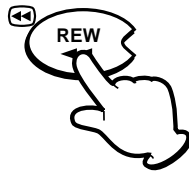
When either the FF or REW button is pressed in the PLAYBACK mode, the speed search picture will appear. When pressed twice the search picture will increase in speed. Speed search times depend upon the speed used (SP or LP) during recording. To rewind or fast forward a tape, press the STOP button, and then press the REW or FF button.

SPEED SEARCH TIMES

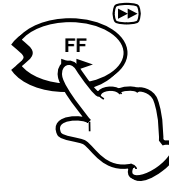
TAPE SPEED	PICTURE SEARCH SPEED		
	PRESS ONCE	PRESS TWICE	
PAL	SP (Standard Play)	5 X	7 X
	LP (Long Play)	7 X	13 X
NTSC	SP (Standard Play)	3 X	5 X

ENGLISH

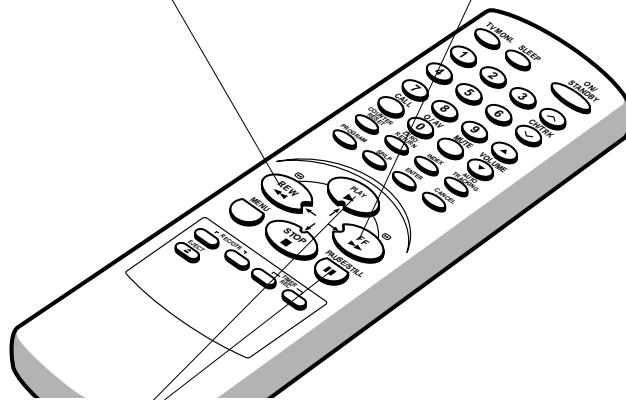
Press the REW button once or twice in the PLAYBACK mode.



Press the FF button once or twice in the PLAYBACK mode.



To return to playback, press the PLAY button.



STILL PICTURE

Press the PAUSE/STILL button in the PLAYBACK mode.



To continue the normal playback, press PLAY button again.

NTSC TAPE PLAYBACK

Your TV/VCR can playback video tapes recorded in the NTSC Color System (TV system usually used in America and Japan).

- NOTES:**
- The audio output is muted during SPEED SEARCH and STILL.
 - A few noise bars will appear on the picture during SPEED SEARCH.
 - To prevent damage to the tape, STILL playback is automatically resumed to the PLAY mode after 5 minutes.





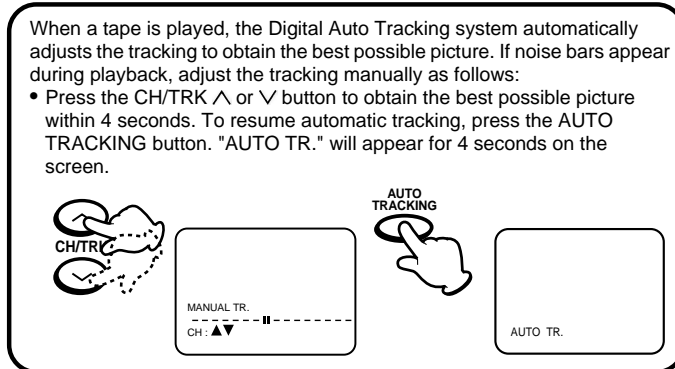
SPECIAL PLAYBACK

(CONTINUED)

DIGITAL AUTO TRACKING ADJUSTMENTS

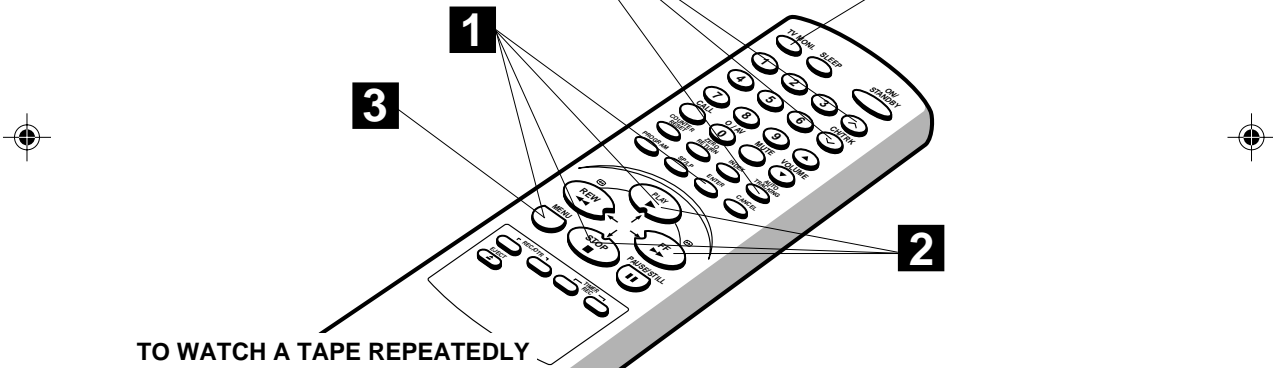
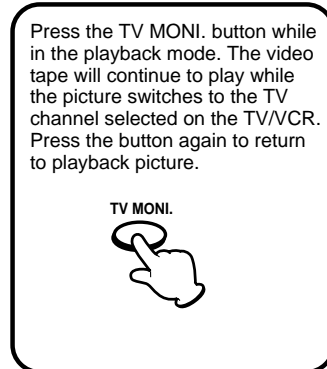
When a tape is played, the Digital Auto Tracking system automatically adjusts the tracking to obtain the best possible picture. If noise bars appear during playback, adjust the tracking manually as follows:

- Press the CH/TRK \wedge or \vee button to obtain the best possible picture within 4 seconds. To resume automatic tracking, press the AUTO TRACKING button. "AUTO TR." will appear for 4 seconds on the screen.



TO MONITOR A TV PROGRAMME

Press the TV MONI. button 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 again to return to playback picture.



TO WATCH A TAPE REPEATEDLY

<p>1 Press the MENU button. Press the \uparrow or \downarrow button to select the VCR SETUP mode, then press the ENTER button.</p> <p> ▼ TIMER REC SET ▼ VCR SETUP ▲ CH TUNING ■ TV SETUP ■ CLOCK SET SELECT : \uparrow \downarrow \leftarrow \rightarrow ENTER : ENTER EXIT : MENU </p>	<p>2 Press the \uparrow or \downarrow button to select the AUTO REPEAT mode, then press the \rightarrow button to select the ON position.</p> <p> VCR SETUP ▼ AUTO REPEAT [ON] ▲ NTSC PLAYBACK OUT [3.58] SELECT : \uparrow \downarrow \leftarrow \rightarrow ENTER : ENTER EXIT : MENU </p>	<p>3 Press the MENU button to return to normal TV screen. If you press the PLAY button, the TV/VCR will repeat playing the video tape until the repeat mode is canceled.</p> <p>MENU</p>
--	---	---


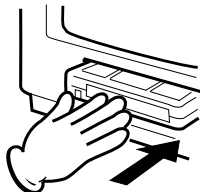
NOTE: To cancel repeat mode, follow above steps 1 and 2, then press the \rightarrow button to select the OFF position. Press the MENU button to return to the TV.



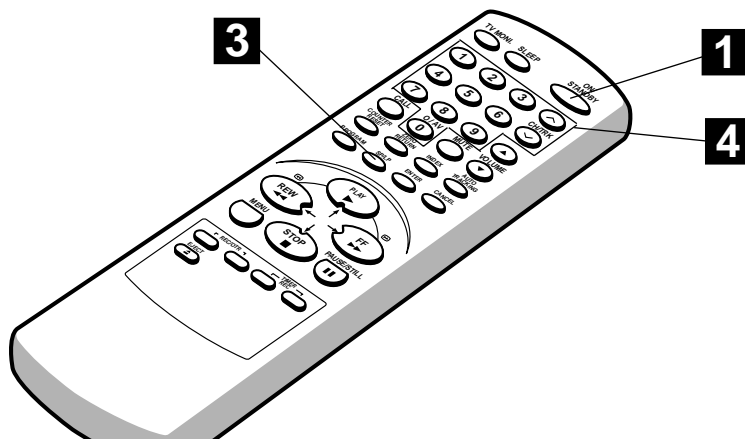



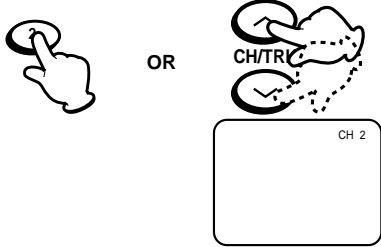
RECORDING A TV PROGRAM

RECORDING AND VIEWING THE SAME TV PROGRAM

<p>1 Press the ON/STANDBY button to turn on the TV/VCR.</p> 	<p>2 Load a cassette tape with the erase prevention tab intact.</p> 
--	---

ENGLISH



<p>3 Press the SP/LP button to select the desired tape speed SP or LP.</p>  <p>• Before recording a TV program, check if the COLOUR SYSTEM is in the AUTO position or suitable system is selected. (See page 20.)</p>	<p>4 Press the Direct channel selection buttons or CH/TRK \wedge or \vee to select the channel to be recorded. (Example: Channel 2)</p> 
---	---

- NOTES:**
- If the power is switched off during recording, the TV section shuts off and the VCR section continues to record.
 - Press the STOP button to stop the recording and to turn off the VCR.
 - The TV/VCR channel cannot be changed during recording.
 - If the erase prevention tab is removed, the tape will eject when the REC/OTR buttons are pressed.





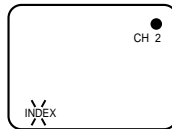
RECORDING A TV PROGRAM

(CONTINUED)

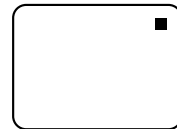
TO STOP RECORDING

5

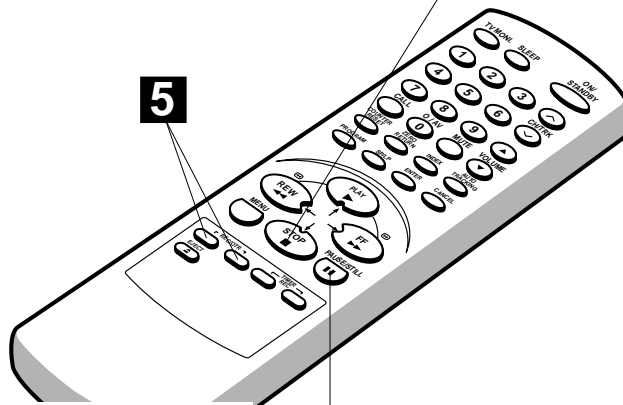
Press both the REC/OTR buttons at the same time. "●" and the channel number will appear on the screen and the REC/OTR indicator will light.



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

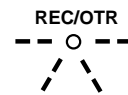


5



TO STOP RECORDING TEMPORARILY

Press the PAUSE/STILL button to stop recording of unwanted material. "||" will appear on the screen and the REC/OTR indicator will blink on and off. Press again to continue the recording.



NOTE:

- To prevent damage to the video head and video tape the pause function will stop the VCR operation after about 5 minutes.

NOTE:

AUTO REWIND FEATURE:

- This TV/VCR will automatically rewind and eject the tape when the tape has ended (except during OTR and TIMER REC).
- If the tab has been removed, the tape will eject whenever the REC/OTR buttons are pressed.

24



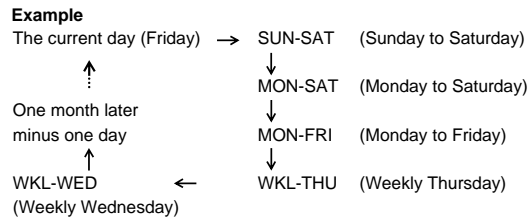


OTHER FUNCTIONS FOR TIMER RECORDING

TO SET DAILY/WEEKLY TIMER

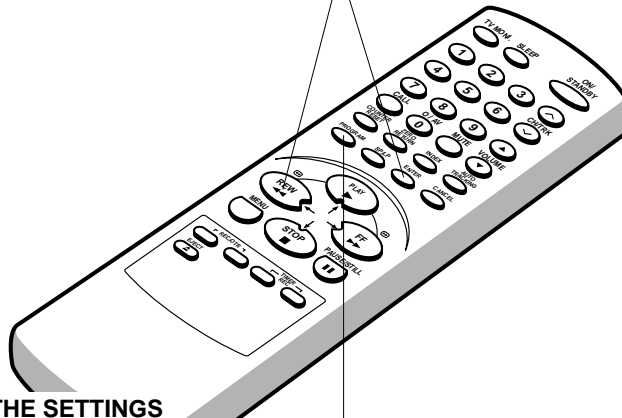
When setting the date in the step 4 on page 25, press the ← button repeatedly when the current day is displayed.

The setting changes as follows:



After setting, press ENTER button.

ENGLISH



TO CONFIRM THE SETTINGS

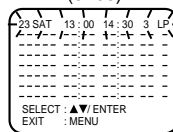
Press the PROGRAM button once. The TV screen displays the timer program list.

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

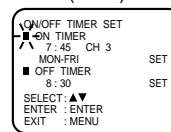
PROGRAM



(once)



(twice)



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





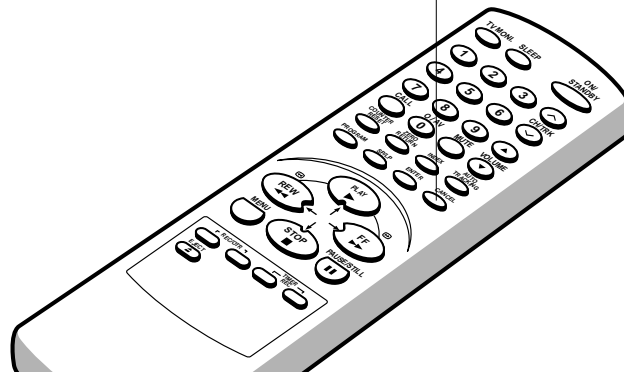
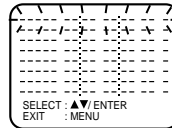
OTHER FUNCTIONS FOR TIMER RECORDING (CONTINUED)

TO CANCEL A PROGRAM

Press the \uparrow or \downarrow button to select the TIMER REC SET mode in the MENU, then press the ENTER button.

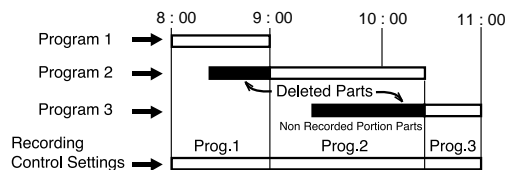
Press the \uparrow or \downarrow button to select the unnecessary program, and press the CANCEL button to cancel the program.

CANCEL



IF THE PROGRAM OVERLAPS ANOTHER

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.



- 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.


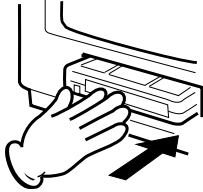





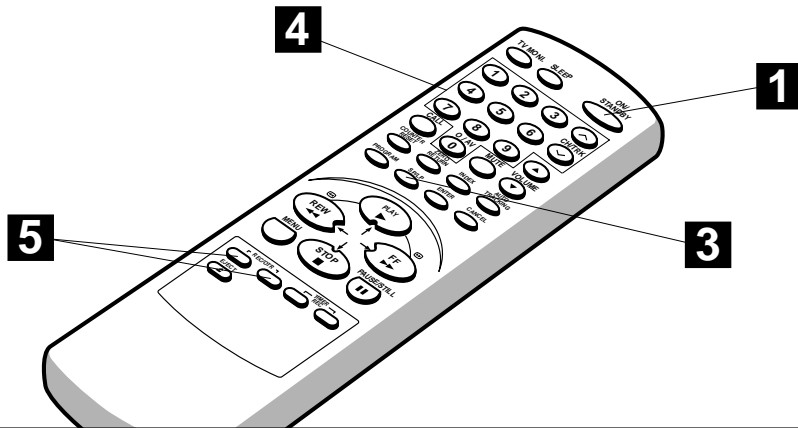
ONE-TOUCH TIMER RECORDING (OTR)

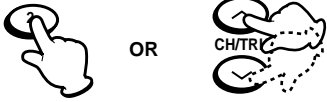



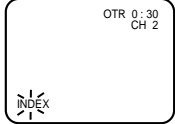
The one-touch timer recording feature provides a simple and convenient way to make a timed recording.

EXAMPLE: One-touch timer recording for 30 minutes.

<p>1 Press the ON/STANDBY button to turn on the TV/VCR.</p> 	<p>2 Load a video cassette with the erase prevention tab intact.</p> 	<p>3 Press the SP/LP button to select the desired tape speed SP or LP.</p> 
--	---	---

ENGLISH



<p>4 Press the Direct Channel Selection buttons or CH/TRK \wedge or \vee button to select the channel to be recorded. (Example: Channel 2)</p>  <p>OR</p>  	<p>5 Press both the REC/OTR buttons at the same time to begin recording. Press the button again for 30 minutes recording. Each additional press of both the REC/OTR buttons at the same time will increase recording time as shown below, up to a maximum of 5 hours. "OTR" will appear on the screen.</p>  
---	--

NOTES: • Press both the REC/OTR buttons 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
Recording time	NORMAL REC	0:30	1:00	1:30	2:00	3:00	4:00	5:00	NORMAL REC

- When the tape speed LP is selected, the recording time can be set up to 10 hours.
- To cancel OTR, press the STOP button.
- The TV/VCR channel cannot be changed during recording.

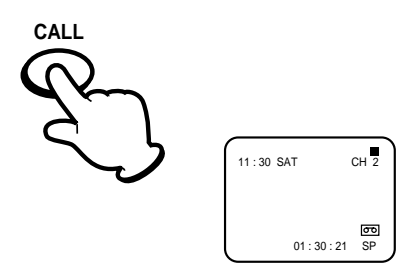
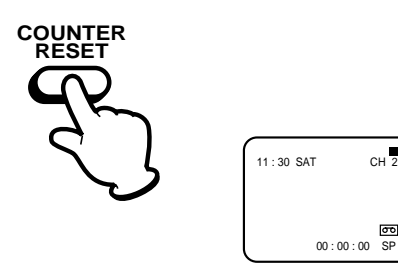


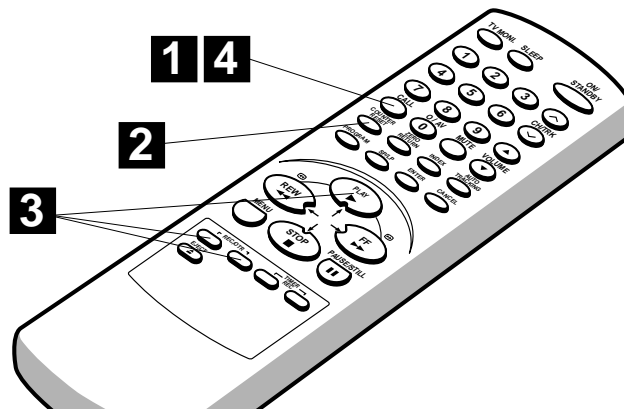


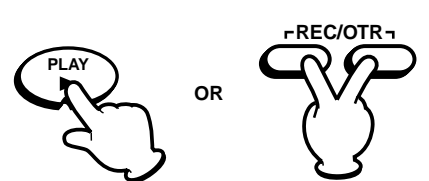
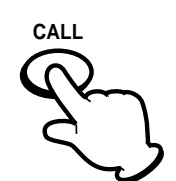
USING THE REAL TIME TAPE COUNTER

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

<p>1 Press the CALL button to display the Real Time Tape counter.</p> 	<p>2 Press the COUNTER RESET button to set the counter to "00:00:00".</p> 
--	---



<p>3 Press the PLAY or both the REC/OTR buttons at the same time to start the tape, the counter will display the passed time.</p> 	<p>4 When you wish to make the counter disappear, press the CALL button once again.</p> 
--	---


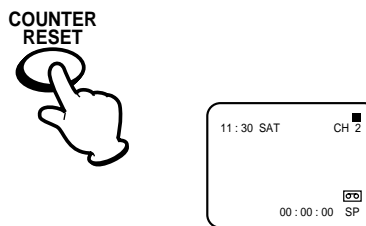
- NOTES:**
- If you rewind the tape from "00:00:00", a minus sign "-" will be displayed in front of the timer.
 - When you load a tape, the counter will change to "00:00:00".
 - The counter does not function on non-recorded (blank) sections of the tape. When you rewind, fast forward or play tapes through blank sections, the counter stops.



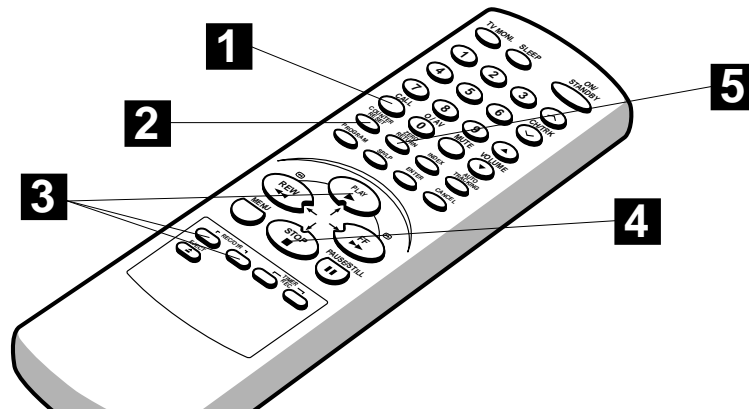


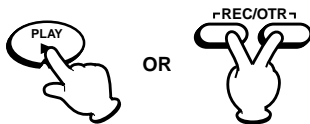

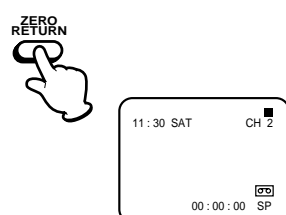
USING ZERO RETURN

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 the COUNTER RESET button and ZERO RETURN button.

<p>1 Press the CALL button to display the counter.</p> 	<p>2 Before playback or recording, press the COUNTER RESET button to set the counter to "00:00:00".</p> 
---	---

ENGLISH



<p>3 Begin playback or recording.</p> 	<p>4 Press the STOP button.</p> 	<p>5 Press the ZERO RETURN button. The tape will rewind and automatically stop at the "00:00:00" position.</p> 
--	--	--



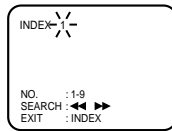


VIDEO INDEX SEARCH SYSTEM (INDEX)

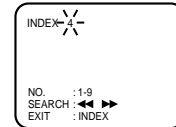
The VIDEO INDEX SEARCH SYSTEM (INDEX) enables you to locate the beginning of any recording made on the TV/VCR. The Index Search function automatically records an INDEX mark on the tape whenever a recording is initiated. This mark can easily be located by using the FF and REW buttons.

SEARCHING FOR AN INDEX MARK

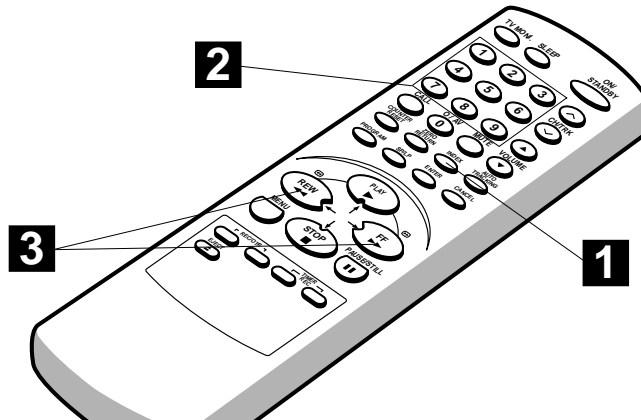
1 To search for an index mark, or skip over a number of index marks:
Press INDEX button during stop or playback.



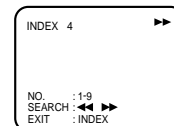
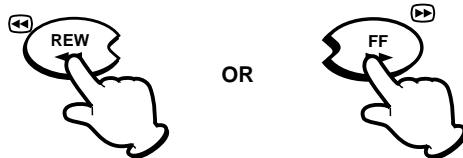
2 Select the number of INDEX marks to be skipped by using the Channel Number keys (1-9).



EXAMPLE: When the tape has four separate recorded programs, select 4 to go to the beginning of the 4th program (4th index mark).



3 Press the FF or REW button. The TV/VCR will skip over the selected number of INDEX marks and will start playback at the selected mark.



- NOTES:**
- When you recorded 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.

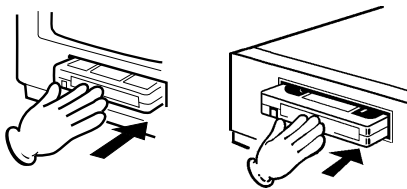




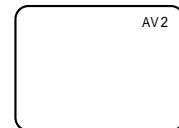
DUPLICATING A VIDEO TAPE

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

- 1** Load a blank cassette tape with the erase prevention tab intact into the recording VCR. Load a previously recorded tape into the playback VCR or VIDEO CAMERA.



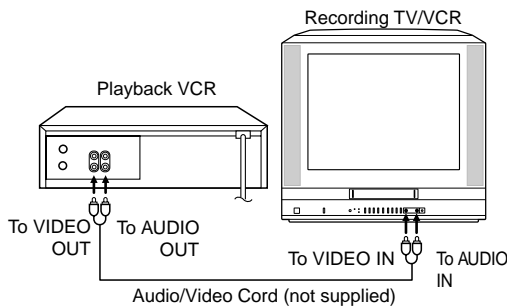
- 2** Press the AV button to select the AUDIO/VIDEO input position. The "AV2" will appear on the screen.



NOTE: You can also use the rear AUDIO/VIDEO IN Jacks. Select "AV1" by pressing the AV button.

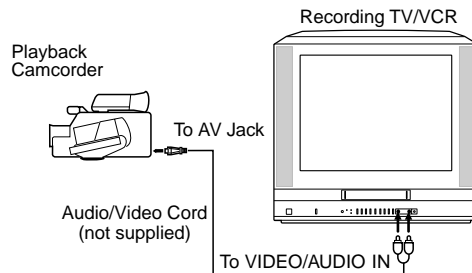
ENGLISH

CONNECTION TO ANOTHER VCR

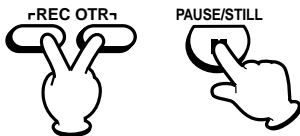


CONNECTION TO CAMCORDER

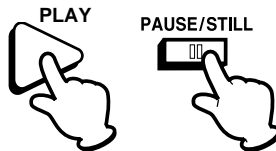
For duplicating a previously recorded tape from a camcorder, follow the camcorder manufacturer's instructions. A typical camcorder dubbing hookup is shown below.



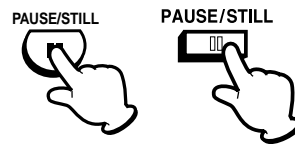
- 3** Press both the REC/OTR buttons at the same time on the remote control of the TV/VCR, then press the PAUSE/STILL button.



- 4** Press the PLAY Button on the playback VCR, then press the PAUSE/STILL button.



- 5** Press the PAUSE/STILL buttons on both units simultaneously to begin the duplicating process.



NOTE: 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.





NTSC RECORDING

NTSC Colour System tape can be copied by the following setup.

1 Press the MENU button.
Press the \uparrow or \downarrow button to select the VCR SETUP mode, then press the ENTER button.

- TIMER REC SET
- VCR SETUP
- CHANNEL SETUP
- TV SETUP
- SYSTEM SETUP

SELECT : \uparrow / \downarrow / \leftarrow / \rightarrow
 ENTER : ENTER
 EXIT : MENU

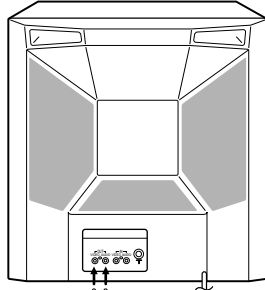
2 Press the \uparrow or \downarrow button to select the NTSC PLAYBACK OUT mode, then press the ENTER button.

VCR SETUP

- AUTO REPEAT [OFF]
- NTSC PLAYBACK OUT [3.58]

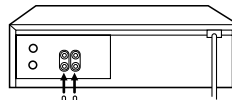
SELECT : \uparrow / \downarrow / \leftarrow / \rightarrow
 ENTER : ENTER
 EXIT : MENU

Playback TV/VCR



To VIDEO OUT To AUDIO OUT

Recording VCR



To VIDEO IN To AUDIO IN

3 Press the \leftarrow / \rightarrow or ENTER button to select [3.58] or [4.43].
 • Select 3.58 for your recording VCR is NTSC system.
 • Select 4.43 for your recording VCR is PAL system.

VCR SETUP

- AUTO REPEAT [OFF]
- NTSC PLAYBACK OUT [4.43]

SELECT : \uparrow / \downarrow / \leftarrow / \rightarrow
 ENTER : ENTER
 EXIT : MENU

4 Press the MENU button to return to the normal screen. Then start the recording.





BEFORE REQUESTING SERVICE

If your TV/VCR does not work properly check the following before calling a service engineer.

SYMPTOM	CAUSE	SOLUTION	PAGE
POWER			
No power.	The Mains lead is not connected.	Connect Mains lead to AC outlet.	4
	Main power switch is OFF.	Set it to ON.	4
Recorder does not work even though STANDBY.	TIMER REC buttons are ON. (TIME REC indicator is on.)	Set them to OFF. (TIME REC indicator is off.)	26
	Moisture condensation has formed inside recorder.	Wait for a few hours.	2
TV BROADCAST RECEPTION			
No picture, no sound.	The Mains lead is disconnected.	Connect the Mains lead to the AC outlet.	4
	Antenna connector is not connected or wires are broken.	Check Antenna connections or broken wires.	7
	ON/STANDBY button is off.	Press the ON/STANDBY button.	4
	Possibly station trouble.	Try another channel.	13
Sound OK, poor picture.	Possibly station trouble.	Try another channel.	13
	Antenna connector is not connected or wires are broken.	Check Antenna connections or broken wires.	7
	Possibly local interference.	Move the Antenna away from the source of interference.	37
Picture OK, poor sound.	Possibly station trouble.	Try another channel.	13
	Possibly local interference.	Move the Antenna away from the source of interference.	37
	Volume control set at minimum position.	Increase VOLUME control.	13
Poor reception.	Antenna connector is not connected or wires are broken.	Check Antenna connections or broken wires.	7
	Possibly station trouble.	Try another channel.	13
Poor color or no color.	Antenna connector is not connected or wires are broken.	Check Antenna connections or broken wires.	7
	Possibly station trouble.	Try another channel.	13
	Possibly local interference.	Move the Antenna away from the source of interference.	37
	Color control is not adjusted.	Press the CANCEL button.	15
RECORDING			
Recording does not work.	Protection tab on the cassette tape has been removed.	Place an adhesive tape over the gap.	19
Timer recording does not work.	Main power switch is OFF.	Set main power to ON.	4
	Clock is not set.	Set the clock.	12
	START/END time is not correctly.	Set the START/END time correctly.	25/26
	TIMER REC buttons are OFF.	Set the TIMER REC buttons to ON.	26
	Present time is not set correctly.	Set the present time correctly.	12
INDEX mark was not registered.	One-Touch Timer Recording (OTR) is ON.	After OTR recording, set the timer recording.	29
INDEX mark was not registered.	INDEX mark was recorded at the beginning of the tape.	Let the tape run for a couple of seconds before recording the first INDEX mark.	32

ENGLISH





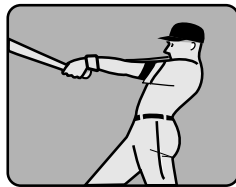
BEFORE REQUESTING SERVICE

(CONTINUED)

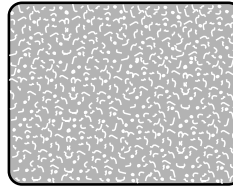
SYMPTOM	CAUSE	SOLUTION	PAGE
PLAYBACK			
Noise bars on screen.	Tracking is not adjusted.	Adjust the TRACKING control.	22
	Video heads are dirty.	Clean the video heads.	36
	The tape is worn or damaged.	Try another tape.	-
Cannot locate INDEX mark.	The tape is worn or damaged.	Try another tape.	-
REMOTE CONTROL			
Remote control does not work.	It is not aimed at the remote sensor.	Aim it at the remote control sensor.	6
	Distance too far or there is too much light in the room.	Operate within 5 metres and reduce the light of the room.	6
	Obstacle in the path of beam.	Clear the path of the beam.	6
	Batteries are weak.	Replace batteries.	6
	Polarities of the batteries, + or -, are not inserted correctly.	Install batteries correctly.	6

VIDEO HEAD CLOGGING

The video heads record and playback picture and sound on the video tape. In the event that they become dirty you won't be able to do a perfect recording and the playback picture will be extremely snowy with good sound. If this happens have the TV/VCR checked by qualified service personnel.



Good Picture



Snowy Picture

VIDEO HEAD CLEANING

AUTO HEAD CLEANING cleans the video heads automatically when a cassette is inserted or ejected. This prevents dirt from accumulating onto the heads which can cause snowy picture. When this happens (snowy picture) this signifies that the heads are either worn or needs cleaning, consult your local service centre for servicing.

NOTE:

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



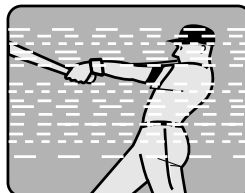


RECEPTION DISTURBANCE

The most common types of television interference are as follows.

IGNITION

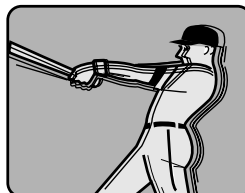
Black spots or horizontal streaks may appear, picture may flutter or drift. Usually caused by interference from car ignition systems, neon lamps, electrical drills and other electrical appliances.



ENGLISH

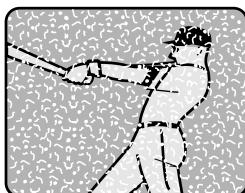
GHOSTS

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



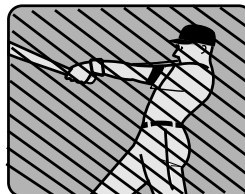
SNOW

If your receiver is located in the fringe area of a television station where the signal is weak, your picture may be marred by the appearance of small dots. When the signal is extremely weak, it may be necessary to install a special antenna to improve the picture.



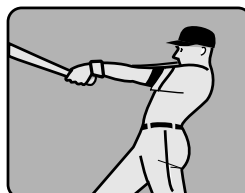
RADIO FREQUENCY INTERFERENCE

The interference produces moving ripples or diagonal streaks, and in some cases, causes loss of contrast in the picture.



PICTURE SIZE VARIATION

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



CARE AND MAINTENANCE

To prevent fire or shock hazard, disconnect the TV/VCR from the AC power source before cleaning. The finish on the cabinet may be cleaned with mild soap and a soft damp cloth. Take care when cleaning or wiping the plastic parts.





SPECIFICATIONS

TELEVISION	
Picture Tube:	21" (51 cm "V") measured diagonally 90 degrees deflection
Broadcasting System	CCIR B/G, D/K
Tuner:	Electronic Tuner
Receiving Channels:	VHF: E2-S41 UHF: E21-E69
Antenna Input:	VHF/ UHF 75 ohm unbalanced
Audio Output Power:	1.5W+1.5W (max)
Speaker:	4.6cmx12.2cm 8ohm x 2
VCR	
Operating Temperature:	5°C to 40°C
Video System:	CCIR 625 Lines 50 Fields PAL/NTSC/MESECAM
Video Recording System:	VHS, 2 Rotary Heads Helical Scanning System Luminance: FM azimuth recording Color signal: converted sub-carrier phase shift recording
Audio Track:	1 Track
Tape Format:	12.65mm high density tape
F. FWD/REW Time:	Approx. 1 minutes 48 seconds (With E-180 Cassette Tape)
Tape Speed:	SP: 23.39mm/s, LP: 11.69mm/s (NTSC SP: 33.35mm/s)
Play Back Time:	300 min.with E-300 video cassette (PAL) 210 min.with T-210 video cassette (NTSC)
Input Level:	Video: 1.0 Vp-p/ 75 ohm unbalanced Audio: -8dB, 50k ohm unbalanced
Output Level:	Video: 1.0 Vp-p/ 75 ohm unbalanced Audio: -8dB, 1k ohm unbalanced
GENERAL	
Power Source:	110-240V, 50/60Hz
Power Consumption:	70 W (AC 240V)
Weight:	26.5 kg
Dimensions:	574(W)x514.5(H)x483(D)mm
REMOTE CONTROL UNIT	
Power Supply:	DC 3V (Two batteries, AAA/ R03/ UM-4)
ACCESSORIES	
	Remote Control unit 2 Batteries (AAA/ R03/ UM-4)

Weight and Dimensions are approximate. Because we continually strive to improve our products we may change specifications and designs without prior notice.

Record the Model No. and the Serial No. as found on the label on the back of your unit in the space provided on the right.

Model No.

Serial No.

Retain this information for future reference.

