TOSHIBA

OWNER'S MANUAL

Video Cassette Recorder





SAFETY PRECAUTIONS



CAUTION: TO REDUCE THE RISK OF ELEC-TRIC SHOCK, DO NOT REMOVE COVER (ORBACK), NO USERSERVICEABLE 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 produc's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to presons.

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

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. DANGEROUS HIGH VOLTAGES ARE PRESENT INSIDE THE ENCLOSURE. DO NOT OPEN THE CABINET. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

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

USER-INSTALLER CAUTION: YOUR AUTHORITY TO OPERATE THIS FCC CERTIFIED EQUIPMENT COULD BE VOIDED IF YOU MAKE CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THIS PARTY RESPONSIBLE FOR COMPLIANCE TO PART 15 OF THE FCC RULES.

Note to CATV system installer:

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

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

IMPORTANT PRECAUTIONS

The original shipping carton and packing materials will come in handy if you ever have to ship your VCR. For maximul protection, repack the set as it was originally packed at the factory.

Do not use volatile liquids, such as an insect spray, near the unit.

Do not leave rubber or plastic products touching the unit for a long time. They will mar the finish.

Moisture Condensation

Never operate this unit immediately after moving it from a cold location to a warm location. When the VCR is exprosed to such a change in temperature, moisture may condense on the cylinder inside, one of its most crucial internal parts. To prevent the VCR from possible damage, do not use the unit for at least 2 hours when there is an extreme or sudden change in temperature.

Compatibility			
CR) is compatible with any other V	CR bearing the 🛚	WHS mark. HQ V	'HS equipment is also

This video cassette recorder (VCR) is compatible with existing, non-HQ VHS	aring the VHS ma	ark. HQ VHS equipment	is also

In the spaces provided below, record the Model and Seria	al No. located at the rear of you	ir video cassette recorder.
Model No	Serial No.	
Retain this information for future reference.		

IMPORTANT SAFETY INSTRUCTIONS

CAUTION: PLEASE READ AND OBSERVE ALL WARNINGS AND INSTRUCTIONS GIVEN IN THIS OWNER'S MANUAL AND THOSE MARKED ON THE UNIT. RETAIN THIS BOOKLET FOR FUTURE REFERENCE.

This set has been designed and manufactured to assure personal safety. Improper use can result in electric shock or fire hazard. The safeguards incorporated in this unit will protect you if you observe the following procedures for installation, use and servicing. This unit is fully transistorized and does not contain any parts that can be repaired by the user.

DO NOT REMÓVE THE CABINET COVER, OR YOU MAY BE EXPOSED TO DANGEROUS VOLTAGE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL ONLY.

Read owner's manual
 After unpacking this product, read the owner's manual carefully, and follow all the operating and other instructions.



5. Heat

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



2. Power Sources

This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company.



For products intended to operate from battery power, or other sources, refer to the operating instructions.

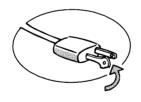
6. Water and Moisture

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



3 Grounding or Polarization

This product may be 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 in-



sert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

7. Cleaning

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



4. Ventilation

Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the



product on a bed, sofa, rug or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

8. 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 product.



9. Overloading

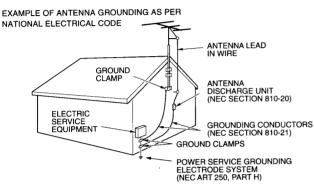
Do not overload wall outlets; extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.



IMPORTANT SAFETY INSTRUCTIONS

10. Outdoor Antenna Grounding

If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard 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.



NEC - NATIONAL ELECTRICAL CODE S2898A

11. Power Lines

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

12. Lightning

For added protection for this product during 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 prod-



uct due to lightning and power-line surges.

13. Object and Liquid Entry

Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.



14. Attachments

Do not use attachments not recommended by the product manufacturer as they may cause hazards.

15. Accessories

Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any



mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

16. Damage Requiring Service

Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- a) When the power-supply cord or plug is damaged.
- b) If liquid has been spilled, or objects have fallen into the product.
- c) If the product has been exposed to rain or water.
- d) If the product 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 product to its normal operation.
- e) If the product has been dropped or damaged in any way.
- f) When the product exhibits a distinct change in performance-this indicates a need for service.

17. Servicing

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



18. Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same charcteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

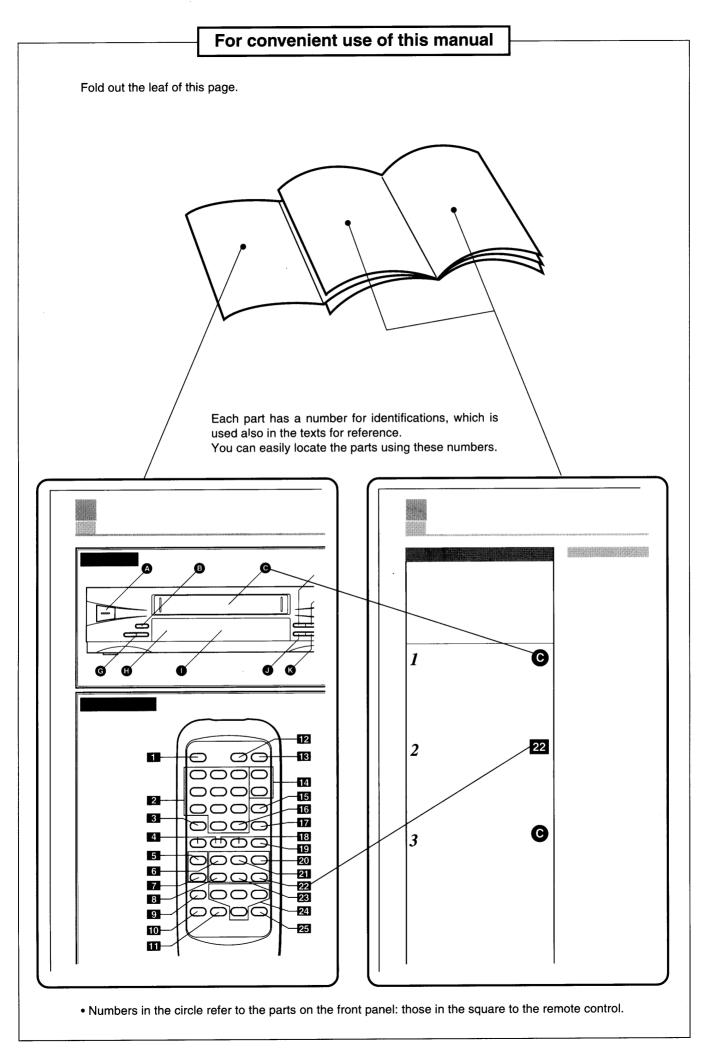
19. Safety Check

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

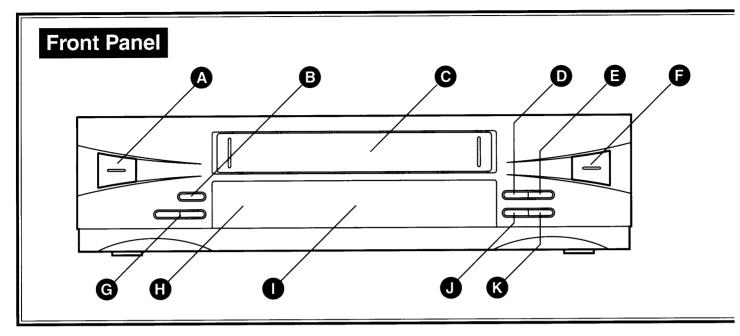


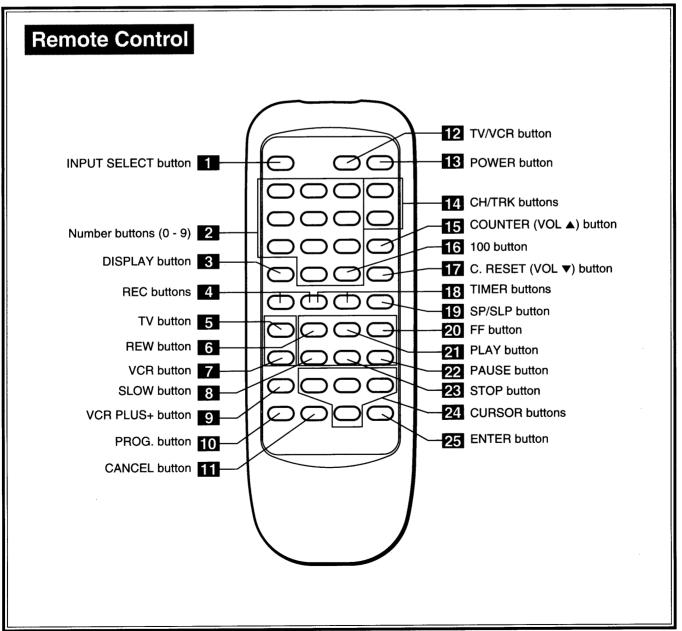
1 CONTENTS

1	INTRODUCTION Provides important notes and general explanation of the VCR, including names of the buttons, jacks, etc.	SAFETY PRECAUTIONS IMPORTANT PRECAUTIONS IMPORTANT SAFETY INSTRUCTIONS CONTENTS For convenient use of this manual IDENTIFICATION OF CONTROLS • Front Panel • Remote Control • Rear Panel • VCR Display	1 2 4 5	INTRODUCTION
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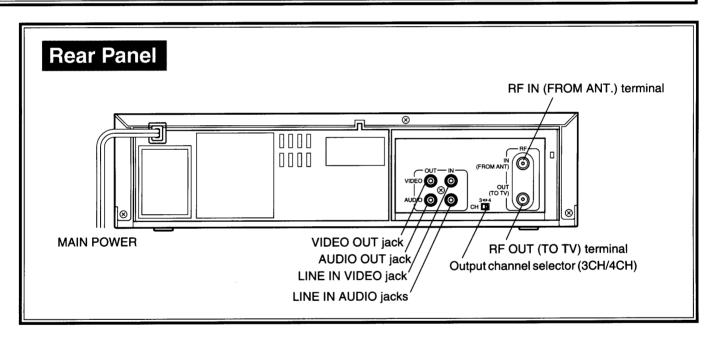


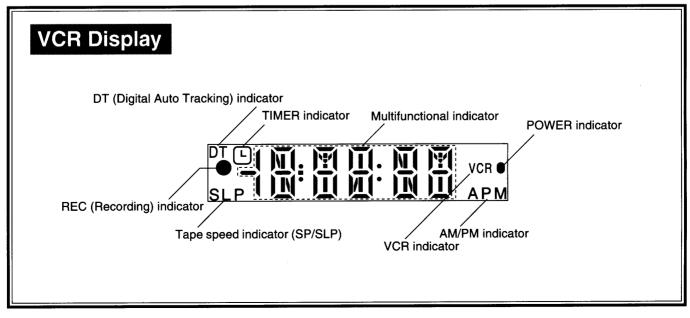
IDENTIFICATION OF CONTROLS





- A POWER button
- B REC (Record) button
- Cassette compartment
- PLAY button
- STOP button
- EJECT button
- G CHANNEL buttons
- Remote sensor
- VCR display
- REW (Rewind) button
- FF (Fast Forward) button



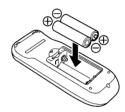


Setting up the Remote Control

Open the battery compartment lid on the rear panel.



2 Install 2 batteries ("AA" size) following the polarity diagrams.



? Close the battery compartment lid.

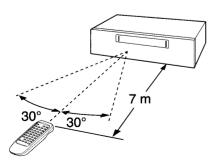


Point the remote control at the VCR and press the buttons within the operating range as illustrated.

Distance: within about 7 m from the front of the remote

sensor

Angles : within about 30° in every direction



Notes on Batteries

- The life of the batteries is about 1 year depending on the conditions of use.
- If the remote control does not operate correctly, replace all batteries with new ones.
- · Do not dispose of the batteries by fire.
- If the remote control is not to be used for a long period of time, remove the batteries to avoid possible damage from battery corrosion.

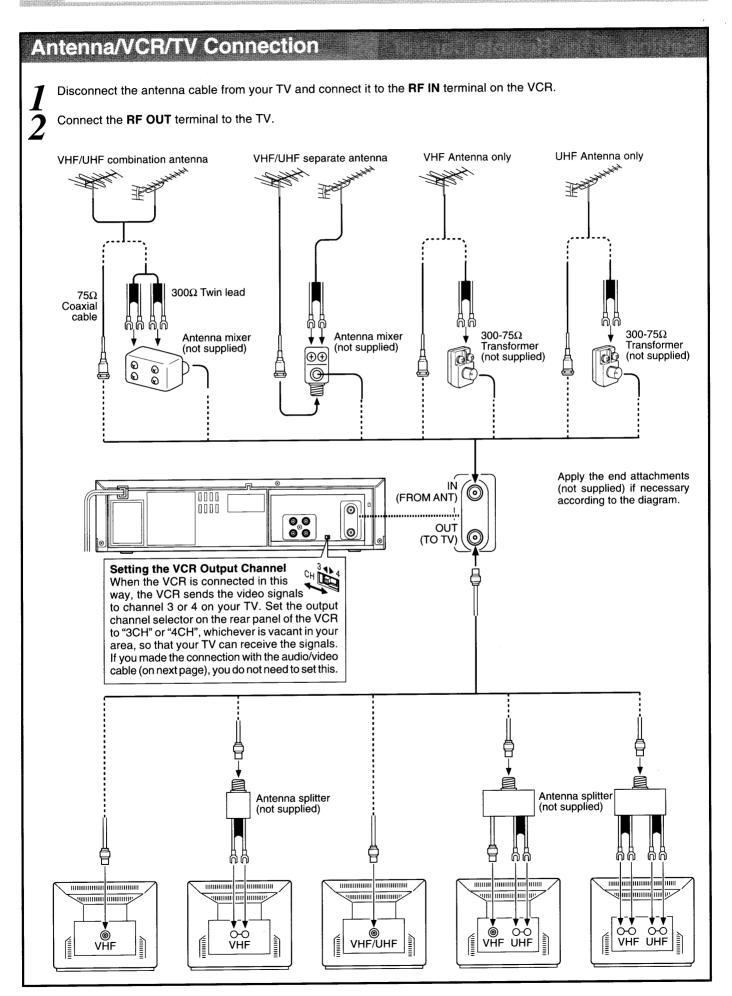
Caring for the Remote Control

- When using the remote control, press the buttons at intervals of about 1 second to ensure the correct mode of operation.
- Keep the remote control away from extremely hot or humid places and avoid sharp impacts.
- Do not expose the remote sensor of the VCR to a strong light source such as direct sunlight or illumination (especially high-frequency lighting) when using the remote control.
- Be careful not to spill water on the remote control or to place it on anything wet.



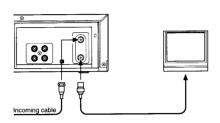
CONNECTIONS

Before you use this VCR, it is necessary to connect it to your TV. Several ways of connecting are available depending on your use of TV or cable box. Select one which is applicable to your equipment.



Cable Connection

■ Choose one of the below according to your usage of the cable box.

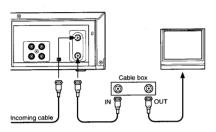


This set-up will enable you to:

- record an unscrambled channel.
- watch an unscrambled channel while recording it.
- record an unscrambled channel while watching another (only when you connect a cable-compatible TV).

You will need to:

- select TV channel 3 or 4 to receive video signals. (See page 9.)
- to record a channel while watching another, press the TV/VCR button on the remote control to turn off the "VCR" indicator in the VCR display and select a desired channel on the TV (only when you connect a cable-compatible TV).

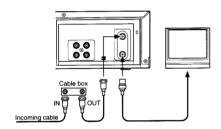


This set-up will enable you to:

- record an unscrambled channel.
 - watch an unscrambled channel while recording it.
- record an unscrambled channel while watching another (scrambled or unscrambled).

You will need to:

- set TV channel to the output channel of the cable box.
 - turn on the cable box and select cable channel 3 or 4 according to the output channel
 - to record a channel while watching another, press the TV/VCR button on the remote control to turn off the "VCR" indicator in the VCR display and select a desired cable channel on the cable box.

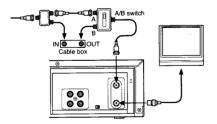


This set-up will enable you to:

- watch an unscrambled or scrambled channel while recording it.
- record any channels through the cable box.

You will need to:

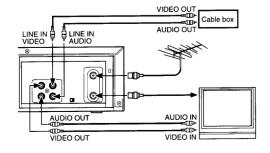
- set TV channel 3 or 4 to receive video signals. (See page 9.)
- set VCR channel to the output channel of the cable box, and select a desired cable channel on the cable box.
- while the VCR is turned off or the "VCR" indicator is not lit in the VCR display, set TV channel to the output channel of the cable box.



- This set-up will enable you to:
 watch an unscrambled or scrambled channel while recording it.
- record an unscrambled channel while watching another unscrambled channel (only when you connect a cable-compatible TV).
- A/B switch "A": record and watch an unscrambled channel which comes bypassing the cable box.
- A/B switch "B": record and watch a scrambled or unscrambled channel coming through the cable box.

AUDIO/VIDEO Connections

The AUDIO/VIDEO jacks are also available to connect your TV or cable box.



Connecting your cable box using the LINE IN (AUDIO/VIDEO)

To watch or record a channel via the connected cable box, press the **INPUT** SELECT button so that the VCR display shows "L". For details, see page 24.

Connecting your TV using the AUDIO/VIDEO OUT jacks

It is not necessary to set the output channel selector (3CH/4CH) on the VCR and TV channel 3 or 4. To watch video pictures, set the video input mode on your TV. For the video input mode, refer to the manual of your TV.



MULTI BRAND REMOTE CONTROL

The remote control can be compatible with various brands of TV by setting their control codes. The TOSHIBA code has initially been set to control TOSHIBA TVs.

Setting Control Codes

While holding down the TV button, enter the two digits of your TV's brand code (listed right) using number buttons.

Hold down

Example





? Release the TV button

5

Point the remote control at your TV and use each button listed below to make sure that your TV is operated correctly.

POWER	To turn the TV on or off.
CH/TRK	To select TV channels in the upper or lower direction.
VOL▲ VOL▼	To adjust the sound level. 15
INPUT SELECT	To select an external source such as a VCR.
Number buttons	To select TV channels. When selecting channels 1 to 9, first enter 0 and then the desired number.
100	To substitute for 100 channel key.
DISPLAY	To turn on or off TV's screen display.
ENTER	To use for the TV's ENTER 25 key.

Important

Some TVs may not respond to all the operations above, or may not be operated at all with this remote control. In this case, operate your TV with its own remote control.

Notes

- For some brands, several control codes (brand codes) are allocated. Try each of them until the buttons work on your TV.
- If you replace the remote control's batteries, set the brand code again.

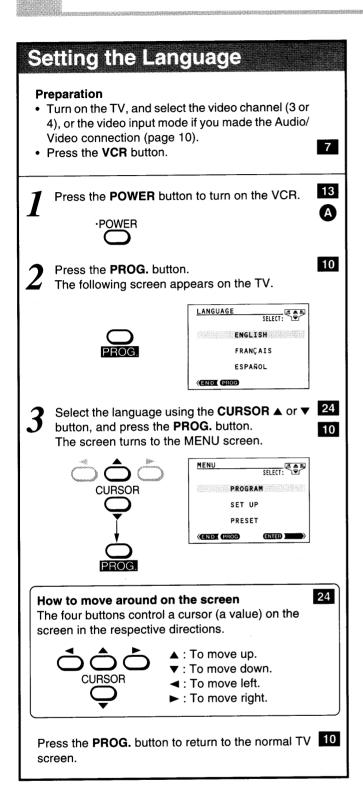
Table of Brand Codes

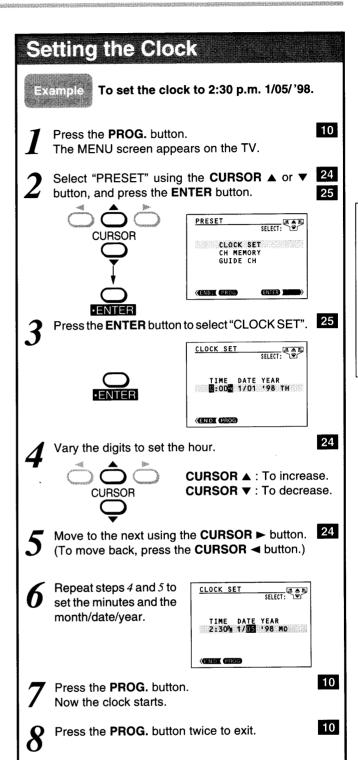
Table of Braild Cod	
Brand name of your TV	Brand code
Toshiba	01
Bell & Howell	10
Carver Celebrity	03
Citizen	12
Curtis Mathes	09, 12
Dumont	14
Electro band	03
Emerson	09, 11
Fisher	09
GE	02, 07, 11
Gibralter	14
Goldstar	11
Hallmark	11
Hitachi	06
Infinity	10
JBL JCB	03
JVC	05
LXI	01, 02, 09, 10, 11
Magnavox	10
Marantz	10
Megatron	06, 11
Memorex	04, 09, 11
MGA	04, 11
Midland	02, 07, 14
Mitsubishi	04, 11
Motorola	08
MTC	12
NAD	01, 11
Nikko	11
Optimus	09
Optonica Panasonic	07, 10, 15
Penney	01, 02, 07, 11, 12
Philco	10
Philips	10
Princeclub	12
Prism	07
Proscan	02
Proton	11
Pulser	14
Quasar	07, 15
Radio Shack	13, 18
RCA	02
Realistic	09, 11, 13 14
Runco (NEC)	11, 12
Samsung Sanyo	09
Scotch	11
Scott	11
Sears	01, 02, 09, 10, 11
Sharp	08, 13
Sony	03
Soundesign	11
Supreme	03
Sylvania	10
Tandy	08
Technics	07, 15
Techwood	07
Teknika	04, 10, 12 11
TMK Victor	05
Vidikron	10
Vidtech	11
Wards	10, 11, 13
Zenith	14



INITIAL SETTINGS USING ON-SCREEN DISPLAY

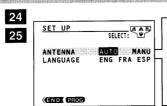
The VCR needs to be made the language selection and clock setting when first plugged in or encountered a power failure.





Optional Settings on the SET UP Screen

Other optional settings can be made. Press the **ENTER** button while "SET UP" is selected on the MENU screen. The screen turns to the SET UP screen.



10

-With "AUTO" set, a TV broadcast will appear via the TV tuner after playback. Set to "AUTO" or "MANU".

If you made the Audio/Video connection (page 10), set to "MANU".

To change the language, move down here and set to the desired one.

24

24

To exit, press the PROG. button twice.

STORING CHANNELS ON THE VCR

This section is required if you receive only normal TV or unscrambled cable channels, or use a cable box between your TV and the VCR.

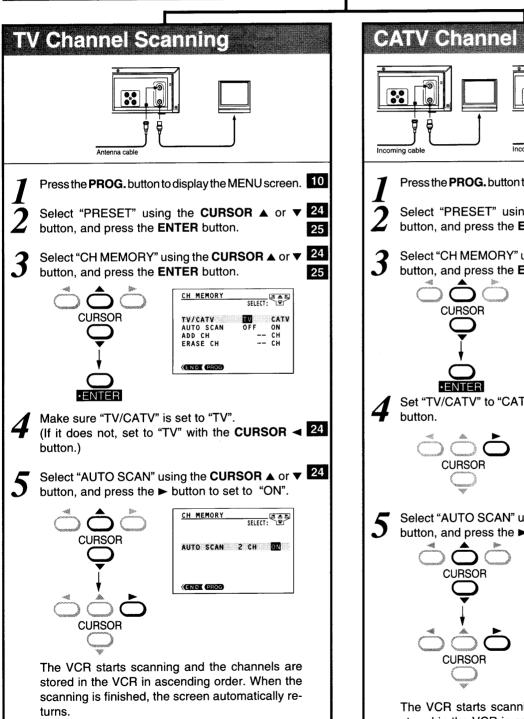
Automatic TV/CATV Channel Scanning

The VCR scans through all receivable TV and CATV channels and stores only the active ones in your area into the memory.

Once the storing is finished, you can select a desired channel by using the CH/TRK buttons.

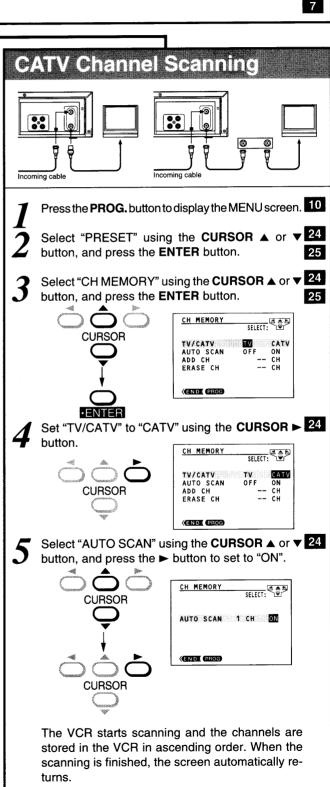
Preparation

- Turn on the TV, and select the video channel (3 or 4), or the video input mode if you made the Audio/Video connection (page 10).
- Turn on the VCR.
- · Press the VCR button.



10

Press the PROG. button three times to exit.



Press the PROG. button three times to exit.

10

h

Selecting Stored Channels

Once the active channels have been stored, you can select the channels in two ways below.

Number buttons: To enter digits of the channel number.

- For one-digit number, enter 0 before.
- For more than 100 number, first press the 100 button.
- Each number button needs to be pressed within 2

CH/TRK buttons: To shift up or down the stored channel numbers.

Adding or Erasing Channels

Adding channels

If a desired channel cannot be scanned automatically because of a weak signal, it can be added to the memory.

Erasing channels

2

16

14

2 3

62 ZZ

1(A-8)

31

31 32 33

Q R s

60 61 62 63

60 61 ΥY

XX

3

63 64 65

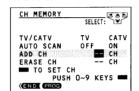
AAA BBB 65 66 67 68 69 70

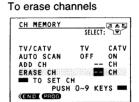
34 U 35 V 36 W

You can erase a stored channel from the memory if it is unnecessary.

- 1) Follow steps 1 to 3 of "Automatic TV Channel Scanning" or "Automatic CATV Channel Scanning".
- 2) Select "ADD CH" or "ERASE CH" using the CUR-SOR ▲ or ▼ button.

To add channels





15

45 46

11

3) Enter a channel number of 1 to 125 by using number buttons.

16

For more than 100 number, first press the 100 button. For CATV channels, refer to the chart below. (For other orders, check with your cable company.)

4) Repeat steps 2) and 3) above to add or erase channels as necessary.

5) Press the PROG. button three times to exit.

10 11 12 13

10

10

40

DD EE

39 CC

12 13

12

42 FF

... 93

43

GG

93

НН

10

18

48

48

LL

98

A-3 A-2

17 18

D Е

47

KK

JJ

2

	Numb	oer or	the \	VCR								
							1	ΓV				
	Corre	spon	dina d	chann	el nu	mber	(CATV	STD	(HRC	(IRC)	
•		•								·		-
•	19	20	21	22	23	24	25	26	27	28	29	-
					23	24	25	26	27	28	29	
	19	20	21	22								
	F	G	Н	- 1	J	K	L	М	N	0	Р	
												_
	49	50	51	52	53	54	55	56	57	58	59	
	49	50	51	52	53	54	55	56	57	58	59	
	MM	NN	00	PP	QQ	RR	SS	TT	UU	VV	ww	
												_
	99	100	101	102	103		121	122	123	124	125	
	_	_	_	-	-	• • • •	-	_	_	_	-	
	A-1	100	101	102	103		121	122	123	124	125	

Channel Reference Chart

CATV signals

66 67

5 6

5(A-7)6(A-6)

37 38

AA BB

67

STD (standard) cable TV signals

68 69

- HRC (Harmonic Related Carriers) cable TV signals
- IRC (Incremental Related Carriers) cable TV signals IRC is also called ICC (Incremental Coherent Carriers)

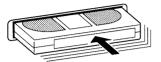


VIDEO CASSETTE USE / COUNTER FUNCTION

Video Cassette Use

■ Loading a Cassette

Push the cassette into the cassette compartment with the window side facing up and the label side towards the front. The VCR is automatically turned





■ Ejecting a Cassette

Press the **EJECT** button on the VCR. The cassette is ejected from the cassette compartment.

0

Warning

Do not insert your hands or any foreign objects into the compartment. This may result in injury or damage. Take special care with children to avoid accidents.

Precautions When Using Video Cassettes

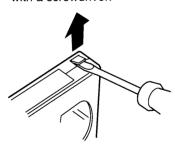
Video cassettes have a safety tab to prevent accidental erasure. If the tab has already removed, recording cannot be performed.

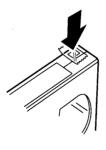
■ To prevent accidental erasure

Remove this safety tab with a screwdriver.

■ To record again

Cover the tab hole with adhesive tape.





Avoid exposing cassettes to direct sunlight. Keep them away from heaters.

Avoid extreme humidity, vibrations or shock, strong magnetic fields (near a motor, transformer or magnet) and dusty place.

Counter Function

You can view the clock, linear time counter in the VCR display or on the TV screen.

Preparation

Press the VCR button.

7

Counter Displays

Each time you press the **COUNTER** button, the VCR 15 display changes in sequence as follows:





→Linear time counter

The indication above will also appear on the TV screen by pressing the DISPLAY button. They are 15 switchable with the COUNTER button.

To reset the linear time counter to "0H00M00S"/ "0:00:00" (VCR display)

The counter is automatically reset to "0H00M00S"/ "0:00:00" (VCR display) when a cassette is ejected. If you want to reset at another point, such as the beginning of a new recording, just press the C. RESET 17 button.

Notes

- The linear time counter does not work on non-recorded portions on the tape.
- When the tape is ejected or the VCR is turned off, the display changes to clock.
- If the tape rewinds back over "0H00M00S"/"0:00:00" (VCR display), "-" appears in the VCR display.
- The displayed time of the linear time counter is only an approximation.

Basic Playback

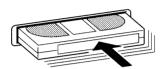
Preparation

- Select the video channel (3 or 4) or video input mode on the TV.
- · Press the VCR button.

7

0

Load a recorded cassette. Power is turned on. If the cassette has no safety tab, playback starts automatically.



Press the PLAY button to start playback.

21 O







To stop playback, press the STOP button.

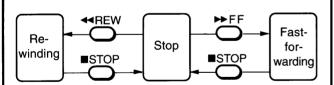
23 ø



Rewinding/Fast-forwarding

To rewind or fast-forward the tape, press the **REW** or FF button in the stop mode as follows.

20



You can view pictures at various tape speeds. See page 17.

Adjusting the Tracking

Digital Auto Tracking

When playback starts, the VCR automatically adjusts the tracking for clear pictures and sound. The "DT" indicator blinks during the adjusting.





Notes

- During the adjusting, the playback picture and sound may be
- The digital auto tracking is activated only in the playback mode.

Adjusting the tracking manually

If the VCR cannot locate the best possible tracking point, hold down one of the CH/TRK button until you obtain the best possible picture and sound.



recorded on another VCR.



Notes

- · To reset the tracking point to the center, press both the CHANNEL buttons on the VCR simultaneously for no longer than 1 second.
- To resume the digital auto tracking, hold down both the CHANNEL buttons on the VCR simultaneously for about 2 seconds.
- The noise on the screen may not be completely eliminated depending on the tape used, especially when the tape was



ARIABLE SPEED PLAYBACK

You can play back a tape at various tape speeds.

Variable Speed Playback

A variety of tape speeds are available on this VCR.

: Plays back at 5 times / 7 times the normal playback speed so that you can quickly locate a particular scene. Picture search

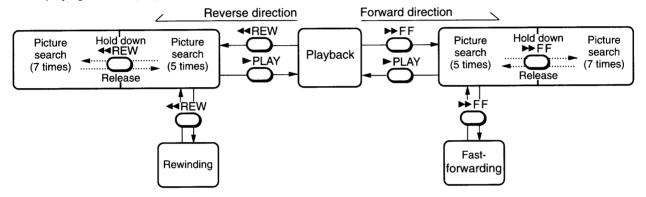
: Freezes the picture so that you can watch closer. Still picture Slow-motion picture: Plays back at 1/7th / 1/15th the normal playback speed.

Picture Search

While playing back a tape, press the FF or REW button. The tape runs at 5 times the normal playback speed.

While playing back a tape, press and hold the FF or REW button. The tape runs at 7 times the normal playback speed.





Still Picture

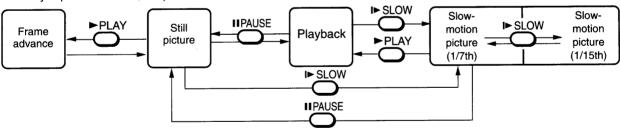
While playing back a tape, press the **PAUSE** button. The picture freezes.

Slow-motion Picture

- While playing back a tape, press the **SLOW** button. The tape runs at about 1/7th the normal playback speed.
- Each time the slow button is pressed, the speed changes. (1/7 th / 1/15 th)

Frame Advance

21 During still picture, press the PLAY button. Each time you press the button, the picture advances one frame.



Notes

- The still mode is automatically cancelled after about 5 minutes and returns to normal playback.
- The still picture may shake if a picture of a fast-moving object or scene is frozen. This is not a defect in the unit.
- Adjusting Still Picture Stability If the still picture is distorted or flickers, hold down one of the CH/TRK buttons until the picture becomes stable.







The distortion of the still picture may not be eliminated completely.

- · The slow-motion picture mode is automatically cancelled after about 5 minutes and returns to normal playback.
- The slow-motion picture may flicker up and down. This is not a defect in the unit.

■ Adjusting the Tracking Manually

If the slow-motion picture is noisy, hold down one of 14 the CH/TRK buttons until the best picture is obtained.



Note

The noise in the slow-motion picture may not be eliminated completely

Note

If you play back a tape recorded in the SLP tape speed or a tape recorded on another VCR in various speed mode, the picture may be noisy or monochrome



RECORDING A TV PROGRAM

This section explains the basic recording operation.

Basic Recording

Preparation

- Turn on the VCR.
- · Select the video channel (3 or 4) or video input mode on the TV.
- Press the VCR button.

7

Load a cassette with the safety tab attached.

Press the TV/VCR button so that the "VCR" indicator appears in the VCR display.

O



Select a channel to record with the CHANNEL buttons on the VCR, or the CH/TRK buttons or number buttons on the remote control.







If you see "L" in the VCR display, press the INPUT SELECT button so that the channel number appears.

- If you record cable channels via the cable box, make the output channel number of the cable box or "L" appear, depending on your connection. (See page 10).
- Press the SP/SLP button to select the recording 19 tape speed.







- : Suitable for general recording with better picture and sound quality.
- SLP: Suitable for tripling recording time, but with less picture and sound quality than using the SP tape speed.
- Press the REC button on the VCR, or simultaneously press the two **REC** buttons on the remote control.



Recording starts.





Press the STOP button to stop recording.



23

Watching a TV Program While Recording **Another**

- 1) While recording, press the TV/VCR button so that the "VCR" indicator disappears in the VCR display.
- Choose another channel using the channel selector on the TV.

Note

To monitor the program which is being recorded, press the TV/ VCR button so that the "VCR" indicator will appear in the VCR display. Select the video channel or video input mode on the TV.

Skipping Unnecessary Scenes While Recordina

Press the **PAUSE** button to stop recording momentarily. To resume recording, press the PAUSE button again.

The VCR automatically shifts to the stop mode if the recording pause mode continues for 10 minutes.

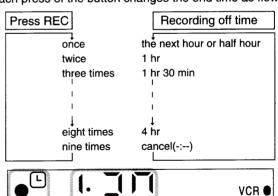
One-touch Timer Recording

While recording, you can set its end time.

- Follow steps 1 to 5 on left head and record a TV programme.
- press the two **REC** buttons on the remote control to set 4 the recording end time.



Each press of the button changes the end time as flows:



At the recording end time you set, the recording stops and the VCR is turned off automatically.

Notes

- To cancel the one-touch timer recording in progress, press the STOP button.
 - To delay the recording end time, further press the REC button on the VCR.
- If the VCR clock is not set, the one-touch timer recording is not activated.
- If the COUNTER button is pressed in the one-touch timer recording mode, the VCR display changes as below.

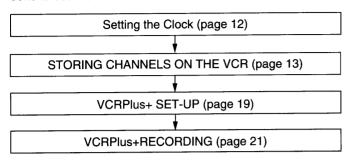
→recording end time → clock → linear time counter—



VCRPlus+SET-UP

VCRPlus+ is a timer recording system for an easier programming that requires you only to enter a PlusCode assigned to a desired program. This section explains the necessary set-up to make VCRPlus+ recordings.

The flow chart below will give you an idea as to what must be done to use the VCRPlus+ feature.



You must give the VCR the special numbers for guide channels (also called VCRPlus+ channel numbers) assigned to each channel that you receive in your home. The VCR identifies the channel to be recorded by the guide channel number you enter.

The guide channel numbers are published in TV guide magazine, selected local TV publications, or the channel guide from cable company.

Sample of a Guide channel chart from a local TV listing

Broadcast	Assigned	Cable	Assigned
channels	channels	channels	channels
3 KCRA (NBC)	3	A & E	39
6 KVIE (PBS)	6	AMC	35
10 KXTV (CBS)	10	BET	57
13 KOVR (ABC)	13	BRAV	54
19 KCSO (SPAN).	19	CMTV	14
31 KRBK (IND)	31	CNBC	23
40 KTXL (FOX)	40	CNN	42
58 KSCH (IND)	25	C-SPAN	28
44 KBHK (IND)	15	CUNY	29
24 KCPM (NBC)	24	DIS	53
4 KRNV (NBC)	28	ESPN	34
42 KFCB (IND)	27	FAM	47
7 KGO (ABC)	28	HBO	33

Sample of a Channel line-up chart from a cable-TV company

CHANNEL LINE-UP CHART			
Channel	2	ME/U	
Channel	3	8 WISH	
Channel	4	4 WTTV	
Channel	5	6 WRTV	
Channel	6	VCA/Local origination	
Channel	7	HOME BOX OFFICE	
Channel	8	A.P. News Plus	
Channel	9	9 WGN	

Guide Channel Setting

Preparation

- Turn on the VCR.
- Select the video channel (3 or 4) or video input mode on the TV.

7

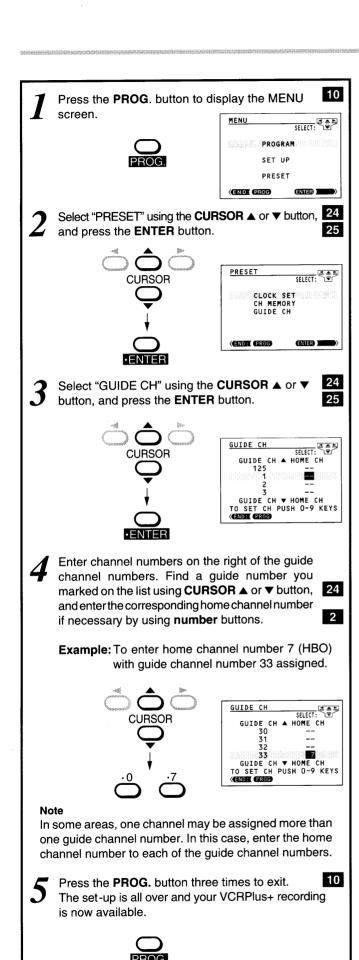
- Press the VCR button.
- · Make sure that the clock is set correctly.

Example

33 34 35	7

	1





When your cable company changes the channel line-up, you

must re-do this set-up for the channel.

Notes



VCRPlus+ RECORDING

After performing the VCRPlus+ set-up, you can easily program a recording simply by entering the PlusCode. The numbers are published in the TV listings of newspapers, TV guide magazine, etc.

VCRPlus+Programming

VCR Plus+ and PlusCode are trademarks of Gemstar Development Corp. VCR Plus+ system is manufactured under license from Gemstar Development Corporation.

Preparation

- · Turn on the VCR.
- Select the video channel (3 or 4) or video input mode on
- Press the VCR button.

· Make sure that the clock is set correctly. (See page 12)

Sample of TV program listing in a TV guide magazine

5PM (FAM) POPEYE-Cartoon 725692

(HBO) MAKING OF A CHAMPION 237945

A look at gymnast and Olympic hopeful Kim

Zmeskal from novice to seasoned competitor.

(NIK) HEY DUDE-Children (793571) ←

> PlusCode One of Ted's teachers stays at the ranch.

USA) MY TWO DADS-Comedy (586858) 5:35 (TBS) GOOD TIMES-Comedy 2261858

Press the VCR PLUS+ button.

The VCR PLUS+ screen appears.



Enter the PlusCode.

Example: To record a program with the PlusCode number 36295 (fictitious code).

Press number button 3, 6, 2, 9 and 5. Confirm that the number is entered correctly.

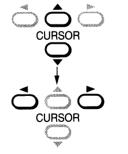




9

To correct a mistake, press the CANCEL button and enter the correct number.

24 Select "MODE" using the CURSOR ▲ or ▼ button, and set the recording frequency.





ONCE: To record once.

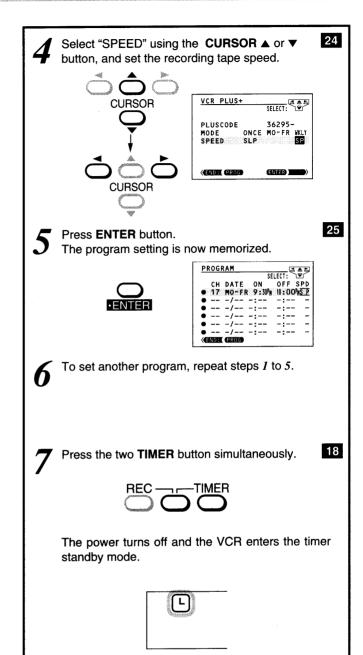
MO~FR: To record programs on the same channel

at the same time Monday to Friday.

WEEKLY: To record programs on the same channel

at the same time on the same day every

week.





TIMER PROGRAM RECORDING

The programmable timer allows you to record up to 6 different programs over 2 weeks.

Timer Programming Procedure

Preparation

- · Turn on the VCR.
- Select the video channel (3 or 4) or video input mode on the TV.
- · Press the VCR button.
- Make sure that the clock is set correctly. (See page 12.)
- Select TV or CATV mode. (See pages 13 and 14.)
- If you record cable channels via the cable box, keep the cable box turned on and select a channel to record on the cable box.

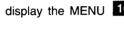


To record cable channel 25 in the SP tape speed from 9:30 p.m. until 10:00 p.m. 10/06.

Load a cassette with the safety tab attached.



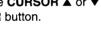
Press the **PROG.** button to display the MENU 10 screen

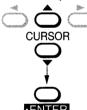


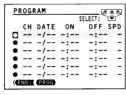




Select "PROGRAM" using the CURSOR ▲ or ▼ button, and press the ENTER button.

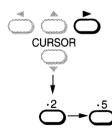






Move to the next using the **CURSOR** ▶ button, and enter the channel number 2 and 5 by number buttons or ▲ or ▼ button.





PROGRAM	SELECT:
CH DATE • 25 -/	ON OFF SPD -:: <u>\$LP</u>
•/	-::
•/	-::
(END PROG	

When entering more than 100 channel numbers, press the 100 button and enter the rest two digits.

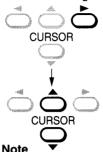
If you use the cable box, enter the output channel number of the cable box with **number buttons** or make "L" appear by pressing the INPUT SELECT button, depending on your connection. (See page

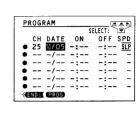
To make corrections:

10.)

item, or the ▶ button to forward.

Move to the next using the CURSOR ➤ button, and 24 set the recording dated using the \blacktriangle or \blacktriangledown button.





The date changes as follows if it is 10/05 Monday today:

10/05→10/06-···→11/03→11/04→WKLY SU→WKLY SA→MO-FR [The current [The day after one month] davl

[The current day]... [The day after one month]: You can record TV programs on the specified days for the following 31 days.

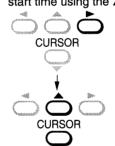
[WKLYSU]...[WKLYSA]:

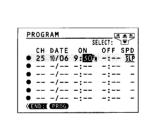
You can record TV programs on the same channel on the day and time every week.

[MO~FR]:

You can record TV programs on the same channel at the same time Monday through Friday.

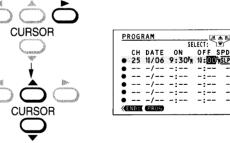
Move to the next using the **CURSOR** ▶ button, and set the hour and minutes of the recording start time using the ▲ or ▼ button.



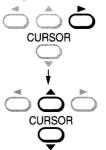


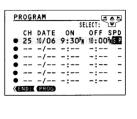
SELECT:

Move to the next, and set the recording off time. 24

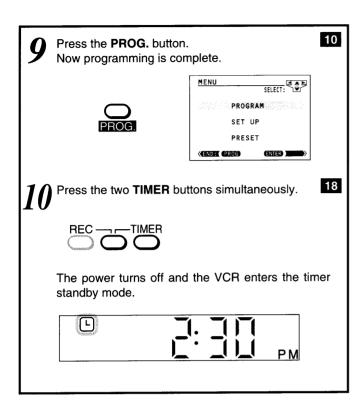


Move to the next, and select the tape speed (SP) 24 using the CURSOR ▲ or ▼ button.





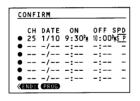
To set another program, press the CURSOR ► button, and select the next line pressing the ▼ button. Repeat steps 4 to 8.



Confirming the Timer Programs (in the Timer Standby Mode)

Press the **PROG.** button. The screen for confirming will appear.





10

13

After about 30 seconds, the screen disappears.

Changing/Canceling the Timer Programs

- 1) If the TIMER indicator is lit, press the two **TIMER** buttons to turn it off, and then turn the VCR on by pressing the **POWER** button.
- 2) With steps 2 to 9, change the items.
 - To cancel a program, select the program you want to cancel after step 3, and press the **CANCEL** button. The line is then cleared.
- 3) Press the two **TIMER** buttons to return to the timer standby mode.

Recording or Playback in the Timer Standby Mode

18

13

18

First press the two **TIMER** buttons to release the timer standby mode, and then press the **POWER** button to turn on the VCR. The VCR will be available for use.

Be sure to press the two **TIMER** buttons again to return the VCR to the timer standby mode after you are finished.

Error Indication

- The "E" (Error) indicator appears in the VCR display if you press the **TIMER** buttons when:
 - a cassette is not loaded.
 - the loaded cassette has no safety tab.
 - no timer program is set.

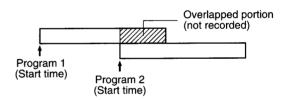
In these cases, a recording can not be made.

If a power failure occurs during the timer program recording

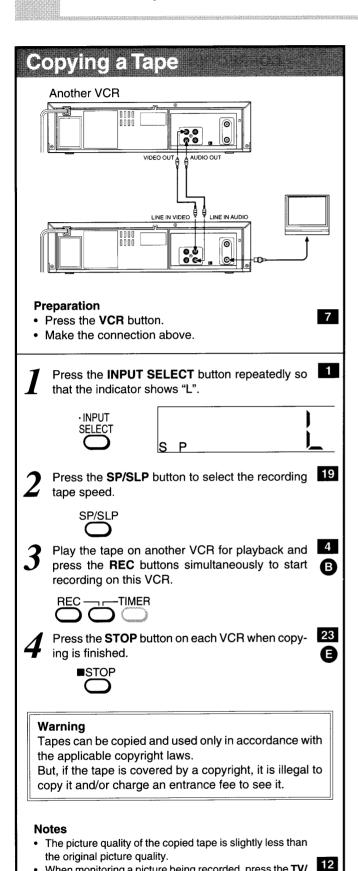
- When a power failure has occurred, "--:--" appear in the VCR display. Since the programmed contents have been cleared, reset the clock and timer programming.
- When power has failed for a short time, the colon of the current time display blinks. The programmed contents are not affected. Reset the clock.

Overlaps of the programs

If two timer programs overlap, the recording start time of program 2 has priority over the recording off time of program 1.



Variable recordings are available by connecting other equipment to the VCR.



When monitoring a picture being recorded, press the **TV/VCR** button to make the "VCR" indicator appear in the VCR display and select the video channel on the TV.



BEFORE CALLING SERVICE PERSONNEL

Check the following symptoms before requesting servicing.

SYMPTOM	CAUSE	CORRECTION	See Page
No power.	The power cord is not plugged in.	Plug the power cord into the outlet firmly.	
Although the power is on, the VCR will not work.	• There is no casset.	Load a cassette.	15
The clock does not work.	• There has been a power failure.	Reset the clock.	12
• The timer does not work properly.	• The time is incorrect.	Set the clock correctly.	12
The picture does not appear on the TV screen.	The video channel or video input mode is not set correctly.	Set the TV channel to the video channel (3 or 4) or set the video input mode on the TV.	9, 10
	The TV signal is weak.	Adjust the antenna direction or use an optional antenna booster.	
	• The power cord is not plugged in.	Plug the power cord into the outlet firmly.	<u> </u>
• The picture does not appear on the TV screen during recording and playback.	The video channel or VCR mode is not set correctly.	Press the TV/VCR button to select the VCR mode and set the TV channel to 3 or 4.	9, 18
The VCR does not record.	The loaded cassette has not safety tab.	Use a cassette with a safety tab or cover the hole with adhesive tape.	15
The playback picture is poor.	Tracking is not set appropriately.	Adjust the tracking manually.	16
	The video heads are dirty.	Clean the video heads with a commer- cially available cleaning tape.	_
The timer recording function does not work.	There is an error in programming.	Reset the timer recording program.	22, 23
	There is not cassette in the VCR.	Load a cassette with the safety tab attached.	15
	The cassette does not have the safety tab.	Use another cassette with a safety tab or cover the hole with adhesive tape.	15
	The timer indicator is not displayed.	Press the two TIMER buttons simultaneously.	23
	There has been a power failure.	Reset the clock.	12
	The cable box is not turned on.	Turn on the cable box.	_
The remote control does not work properly.	The batteries are exhausted.	Replace all batteries.	8
	The remote control is operated beyond the operating range.	Make sure the remote control is within 30° of the remote sensor on the VCR.	8
	Too far from the VCR.	Use the remote control within 7 m from the front of the VCR.	8
	An obstacle may be in the way of the operation.	Remove the obstacle.	
	Setting of the VCR/TV selector is not correct.	Check the VCR/TV selector setting.	11
The cassette is ejected immediately after it is loaded.	The cassette was inserted with the label side not paralleling the compartment.	Reload it carefully.	15
The cassette does not go into the cassette compart- ment.	There is already a cassette in the VCR.	Eject the cassette and reload the new one.	15

SPECIFICATIONS

Power supply: 120 V AC, 60 Hz

Power consumption: 15 W

External dimensions: 370 × 93 × 280 mm (W.H.D.)

Mass: 3.1 kg

Channels received: VHF: Channels 2-13
UHF: Channels 14-69

CATV: Channels 1-125

Antenna input/output terminals: UHF/VHF: 75 Ω F type connector

Signal system: Standard NTSC

Recording/Playback system:

Recording: VHS format (SP, SLP)
Playback: VHS format (SP, LP, SLP)

Playback: VHS format (SP, LP, SLP Video cassette with VHS mark

Cassette: Video cassette with WHS mark
Tape speed: SLP: 11.1 mm/s, SP: 33.4 mm/s

Video recording playback time: SLP: 480 minutes, SP: 160 minutes (When T-160 video cassette is used.)

Video input:1 V(p-p), 75 Ω , unbalanced, negative sync., pin jackVideo output:1 V(p-p), 75 Ω , unbalanced, negative sync., pin jackAudio input:Line input: 308 mV (rms), more than 47 k Ω , pin jackAudio output:Line output: 308 mV (rms), less than 4.7 k Ω , pin jack

Utilization conditions: Temperature: 5°C to 40°C Humidity: less than RH 80%

ACCESSORIES

Antenna cable	. 1
Remote control	. 1
Ratteries (AA)	2

LIMITED WARRANTY TOSHIBA VIDEO CASSETTE RECORDER

Toshiba America Consumer Products, Inc. ("TACP") and Toshiba Hawaii Inc. ("THI") make 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/THI warrant this product against defects in materials or workmanship for a period of ninety days after the date of original retail purchase. During this period, TACP/THI will repair a defective product or part, without charge to you. You must deliver the entire product to a TACP/THI Authorized Service Station. You are responsible for all transportation and insurance charges for the set to and from the Authorized Service Station.

Limited One (1) Year Warranty

TACP/THI further warrant the parts in this product against defects in materials or workmanship for a period of one (1) year after the date of original retail purchase. During this period, TACP/THI 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 the original retail purchase, you pay labor charges involved in the replacement. You must also deliver the entire product to a TACP/THI Authorized Service Station. You are responsible for all transportation and insurance charges for the set to and from the Authorized Service Station.

Rental Units

The warranty for rental units begin 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 and labor.

Owner's Manual and Demographic Card

You should read the owner's manual thoroughly before operating this product. You should complete and mail the enclosed Demographic card within ten (10) 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/THI to provide you with better customer service and improved products. Failure to return the 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) You must notify an Authorized TACP/THI Service Station within thirty (30) days after you discover a defective product or part.
- (3) All warranty servicing of this product must be made by an Authorized TACP/THI Service Station.
- (4) These warranties are effective only if the product is purchased and operated in the U.S.A or Puerto Rico.
- (5) Labor service charges for set installation. Set up, adjustment of customer controls and installation of repair or antenna systems are not covered by this warranty. Reception problems caused by inadequate antenna systems are your responsibility.
- (6) 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/THI or to damage to products or parts there of which have had the serial number removed, altered, defaced or rendered illegible.
- (7) At you option, after the warranty period has expired in the U.S.A. Call (800)-631-3811 to receive information concerning an exchange price. Payment must be enclosed with the product in the form of a certified check or money order and forward your product to: Toshiba America Consumer Products Inc. Returns Center 1420C Toshiba Dr. Lebanon, TN 37087
- (8) Upon receipt we will, at our option, replace your unit with a new or refurbished unit of equal value. Features may not be identical to your original product.
- (9) Physically damaged units are not acceptable for repair or exchange in or out of warranty and will be returned as received.

How to Obtain Warranty Service

- (1) Refer to the troubleshooting guide in your owner's manual. This check list may solve your problem
- (2) Call the TACP toll free number 800-631-3811 within (30) days after you find a defective product or part.
- (3) Arrange for the delivery of the product to the Authorized TACP/THI Service Station. Products shipped to the Service Station must be insured and safely and securely packed, preferably in the original shipping carton, and a letter explaining the defect and also a copy of the bill of sale or other proof of purchase must be enclosed.

In the Continental United States contact:



In Hawaii contact
Toshiba Hawaii
327 Kamakee Street

Honolulu, HA 96814 (808)-521-5377

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/THI 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 action must be commenced to enforce any obligation of TACP/THI arising under the warranty or under any statute, or law of the United States or any state thereof, is hereby limited to ninety (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. Product must be purchased from an Authorized Canadian Dealer. Products purchased in the U.S.A and used in Canada are not covered by these warranties.

IMPORTANT: PACKING AND SHIPPING INSTRUCTION

When you send the product to a Service Station, you should use the original carton box and packing material, then insert the original carton box containing the unite into another carton, using more packing material.

TOSHIBA AMERICA CONSUMER PRODUCTS, INC.