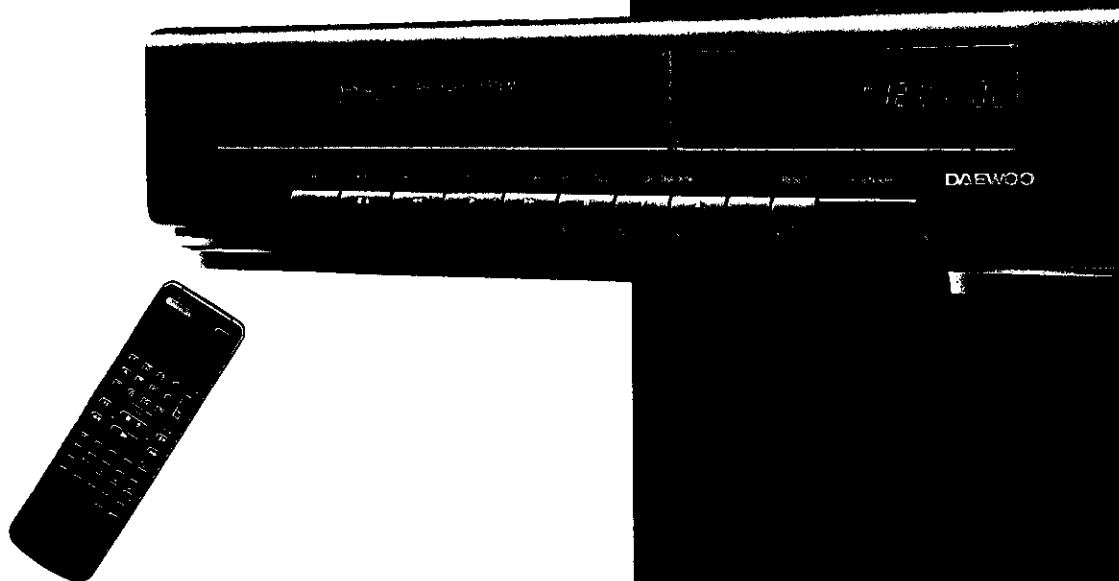


DAEWOO

DVR-5088N

Operating Instructions



VIDEO CASSETTE RECORDER

- *On Screen Display & Programming*
- *VHS Index Search System*
- *Digital Auto Tracking*
- *Real Time Counter*

VHS

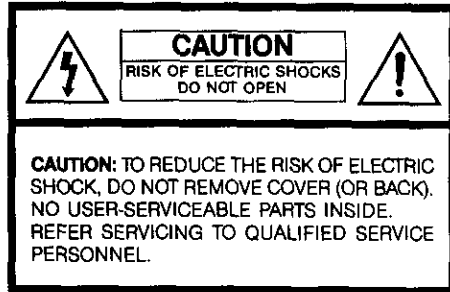
HQ
High Quality

- Only cassettes marked "VHS" can be used with this video cassette recorder.
- HQ VHS is compatible with existing VHS equipment.

CAUTION

Thank you for purchasing DAEWOO VCR, developed to provide advanced features and functions for high quality performance. To obtain the best results and to avoid malfunction, please read the following instructions carefully before using.

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.



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



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

Warning: To prevent fire or shock hazard, do not expose this unit to rain or moisture. This video cassette recorder should be used with AC 120V, 60 Hz only.
Caution: To prevent electric shocks and fire hazards, do NOT use any other power source.

Caution: To prevent electric shock do not use this polarized plug with an extension cord receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

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.

Caution:

When you are not using the VCR for a long period of time, it is recommended that you disconnect the power cord from the AC outlet.

Caution:

Any changes or modification in construction of the device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE:

This equipment has been tested and found to comply with the limit for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

IMPORTANT SAFEGUARDS

For your protection, please read these safety instructions completely before operating the appliance, and keep this manual for future reference.

Carefully observe all warnings, precautions, and instructions on the appliance, or the one described in the operating instructions and adhere to them.

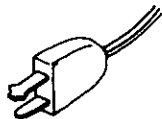
USE

Power Sources—This set should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of electrical power supplied at your home, consult your dealer or local power company. For those sets designed to operate from battery power, or other sources, refer to the operating instructions.

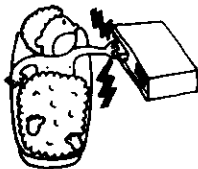


Grounding or Polarization—This set is equipped with a polarized AC power cord plug (a plug having one blade wider than the other), or with a three-wire grounding type plug (a plug having a third pin for grounding). Follow the instructions below.

For the set with a polarized AC power cord plug: This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to have a suitable outlet installed. Do not defeat the safety purpose of the polarized plug by forcing it in.



Water and Moisture—Do not use power-line operated sets near water—for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, ect.

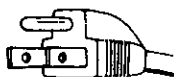


Accessories—Do not place the set on an unstable cart, stand, tripod, bracket, or table. The set may fall, causing serious injury to a child or an adult, and serious damage to the set. Use only a cart stand ripod, bracket, or table recommended by the manufacturer.



Alternate Warning—For the set with a three-wire grounding type AC plug.

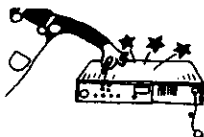
This plug will only fit into a grounding type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet contact your electrician to have a suitable outlet installed. Do not defeat the safety purpose of the grounding plug.



Overloading—Do not overload wall outlets, extension cords or convenience receptacles beyond their capacity, since this can result in fire or electric shock.



Object and Liquid Entry—Never push objects of any kind into the set through openings as they may touch dangerous voltage points or should out parts that could result in a fire or electric shock. Never spill liquid of any kind on the set.

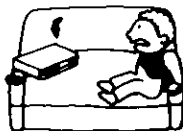


Ventilation—The slots and openings in the cabinet are provided for necessary ventilation. To ensure reliable operation of the set, and to protect it from overheating, these slots and openings must never be blocked or covered.

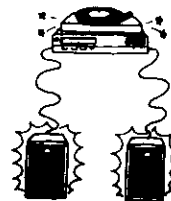
—Never cover the slots and openings with a cloth or other materials.



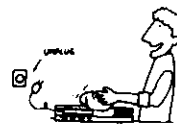
—Never block the slots and openings by placing the set on a bed, sofa, rug or other similar surface.



Attachments—Do not use attachments not recommended by the manufacturer, as they may cause hazards.



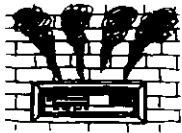
Cleaning—Unplug the set from the wall outlet before cleaning or polishing it. Do not use liquid cleaners or aerosol cleaners. Use a cloth lightly dampened with water to clean the exterior of the set.



Portable Cart Warning—An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



—Never place the set in a confined space such as a bookcase, or built-in cabinet, unless proper ventilation is provided.



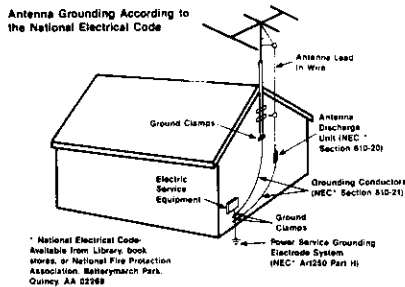
Power-Cord Protection—Route the power cord so that it is not likely to be walked on or pinched by items placed upon or against them, paying particular attention to the plugs, receptacles, and the point where the cord exits from the appliance.



—Do not place the set near over a radiator or heat register, or where it is exposed to direct sunlight.



OUTSIDE ANTENNA, EQUIPMENT, AND POWERLINE EXPOSURE



(FIGURE 1)

1. ENSURE SAFE ANTENNA AND CABLE CONNECTIONS

If an outside antenna or cable system is connected to provide some protection the antenna or cable system is grounded so as to provide some protection against built up static charges and voltage surges. Section 810 of the National Electrical Code, ANSI/NEPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes and requirements for the grounding electrode.

See figure 1 for items a-d below.

- Use No. 10 AWG (5.3mm²) aluminum, No. 8 AWG (8.4mm²) No. 17-AWG (10mm²) copper-clad steel or bronze wire, or larger, as ground wire.
- Secure antenna lead-in and ground wires to house with stand-off insulators spaced from 4 feet (1.22m) to 6 feet (1.83m) apart.

- Mount antenna discharge unit as close as possible to where lead-in enters house.
- Use jumper wire not smaller than No. 6 AWG (13.3 mm²) copper, or the equivalent, when a separate antenna grounding electrode is used. See NEC Section 810-21 (l).

2. ELIMINATE ANTENNA PROXIMITY TO HIGH VOLTAGE POWER SOURCES OR CHANCE OF ACCIDENTAL CONTACT BY INSTALLER

An outside antenna system should be located where it will never be reached by power lines, electric light or power circuits and where it will never contact these power sources if it falls. Installer should use extreme care to avoid possible fatal contact by touching power lines, circuits or other power sources when installing outside antenna.

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



SERVICE

Damage Requiring Service—Unplug the set from the wall outlet and refer servicing to qualified service personnel under the following conditions:

—When the power cord or plug is damaged or frayed.

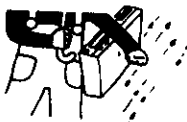


CRACKED PLUG

—If liquid has been spilled or objects have fallen into the set.



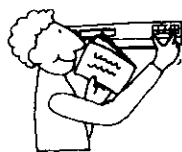
—If the set has been exposed to rain or water.



—If the set has been subject to excessive shock by being dropped, or the cabinet has been damaged.

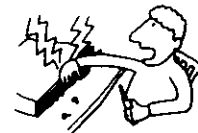


—If the set does not operate normally when following the operating instructions. Adjust only those controls that are specified in the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the set to normal operation.



—When the set exhibits a distinct change in performance—this indicates a need for service.

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



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

Safety Check—Upon completion of any service or repairs to the set, as the service technician to perform routine safety checks (as specified by the manufacturer) to determine that the set is in safe operating condition.



DAEWOO

Thank you for purchasing this Daewoo videocassette recorder. It contains a number of features designed to make this recorder easy to operate while at the same time capable of producing outstanding recordings. In the pages that follow, you'll learn about these features and how to use them. Please take time now to familiarize yourself with the details of your new VCR, and its various functions and controls.

CONTENTS

- 1 CAUTION
- 2 IMPORTANT SAFEGUARDS
- 6 IDENTIFICATION (1) (2) (3)
- 11 INSTALLATION (1) (2)
- 14 BASIC OPERATION
 - VIDEO CASSETTE
 - PLAYBACK
 - SPECIAL EFFECTS AND OPERATIONS
 - RECORDING TV PROGRAMS
 - ONE TOUCH RECORDING
 - CLOCK ADJUSTMENT
- 24 PROGRAMMING THE RECORD TIMER
 - DUPLICATION
 - TIMER RECORDING
 - CHECKING AND CANCELLING INPUT PROGRAMS
 - VISS (VHS INDEX SEARCH SYSTEM)
 - CALENDAR
- 34 SPEAKING THE LANGUAGE: A GLOSSARY OF TERMS
- 35 TROUBLE SHOOTING GUIDE

IMPORTANT NOTES

- Audio-visual material may include works of copyright which must NOT be recorded without the authority of the owner of copyright.
- Note that main voltage is supplied to the unit whenever the main plug is connected to the supply socket.
- Clock display on the front panel indicates that the main supply is on.
- To avoid the risk of fire or electric shock, do not expose the unit to rain or moisture.
- Do not attempt to open the cabinet. There are no user-serviceable parts inside. Refer all servicing to qualified service personnel.
- Keep the unit away from radiators or other sources of heat.
- Do not operate or store the unit close to strong magnetic fields.
- Do not spill liquid of any kind onto the unit. If liquid is accidentally spilled onto the unit, immediately remove the main plug from the supply socket, and consult a qualified service engineer.

MOISTURE CONDENSATION: If you pour a cold liquid into a glass, water vapor in the air will condense on the surface of the glass. This is moisture condensation. Moisture condensation on the head drum, one of the most crucial parts of the video recorder, will cause damage to the tape. Whenever the video recorder is exposed to extreme cold and heat at the same time, some condensation will occur. When moisture is present, turn the power switch on, and allow at least 2 hours for the video recorder to dry out.

- Use the video recorder in a horizontal (flat) position only.
- Before operating, remove any paper wrapping which may have been affixed to the recorder during manufacture. **DO NOT COVER VENTILATION OPENINGS ON TOP AND SIDES OF THE RECORDER DURING OPERATION.**
- When a cassette is inserted into the loading compartment, the power is switched on automatically as long as the power cord is plugged into an AC outlet. **DO NOT** force a cassette into the compartment when the power cord is unplugged.
- Keep the recorder and video cassette away from strong magnetic fields.
- After playing a video cassette, remove it from the recorder. **DO NOT** move the recorder with a cassette in the compartment.
- Store video cassettes in their sleeve or case and position them vertically.
- If a cassette has been subjected to cold temperature, allow it to warm to room temperature before recording or playback.

For your protection, record the model and serial numbers of your videocassette recorder here. In the event your recorder requires servicing or is stolen, you may need this information. You may also wish to clip or staple your sales receipt to this page.

Model Number: _____

Serial Number: _____

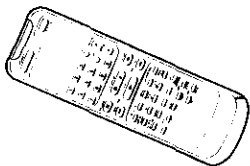
Date Purchased: _____

Store's Name and Address:

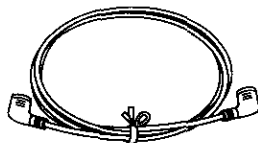
ACCESSORIES

Check to be sure the following items are packed with your VCR.

1. REMOTE CONTROLLER

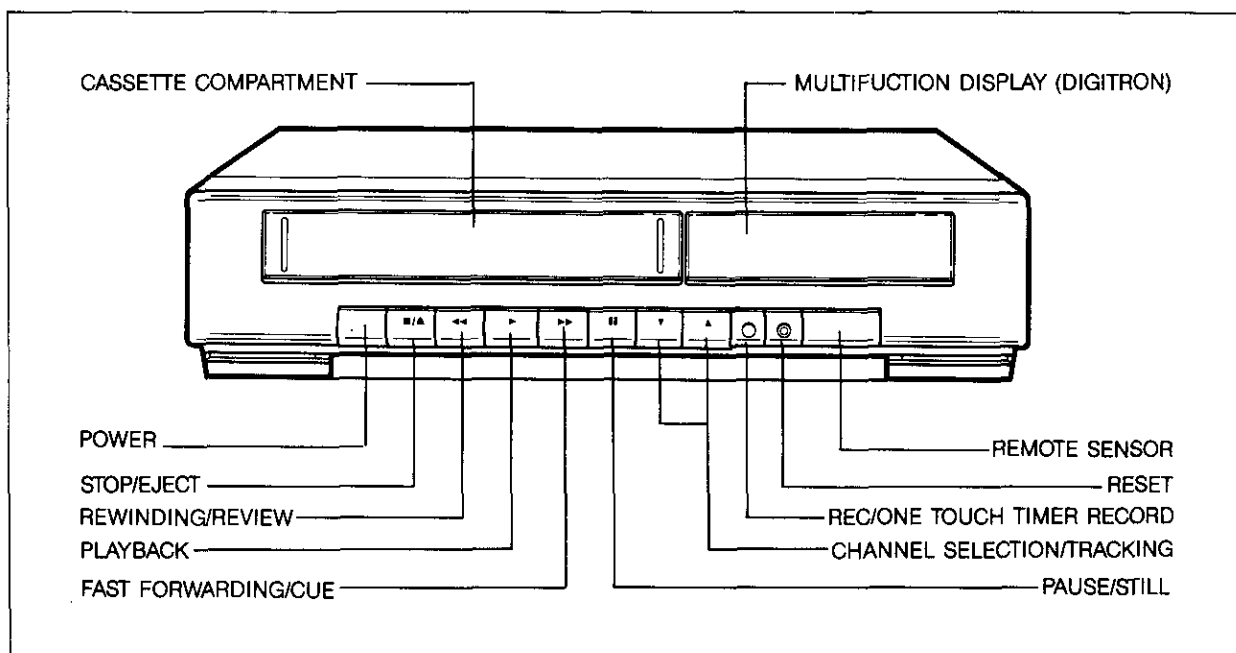


2. COAXIAL CABLE

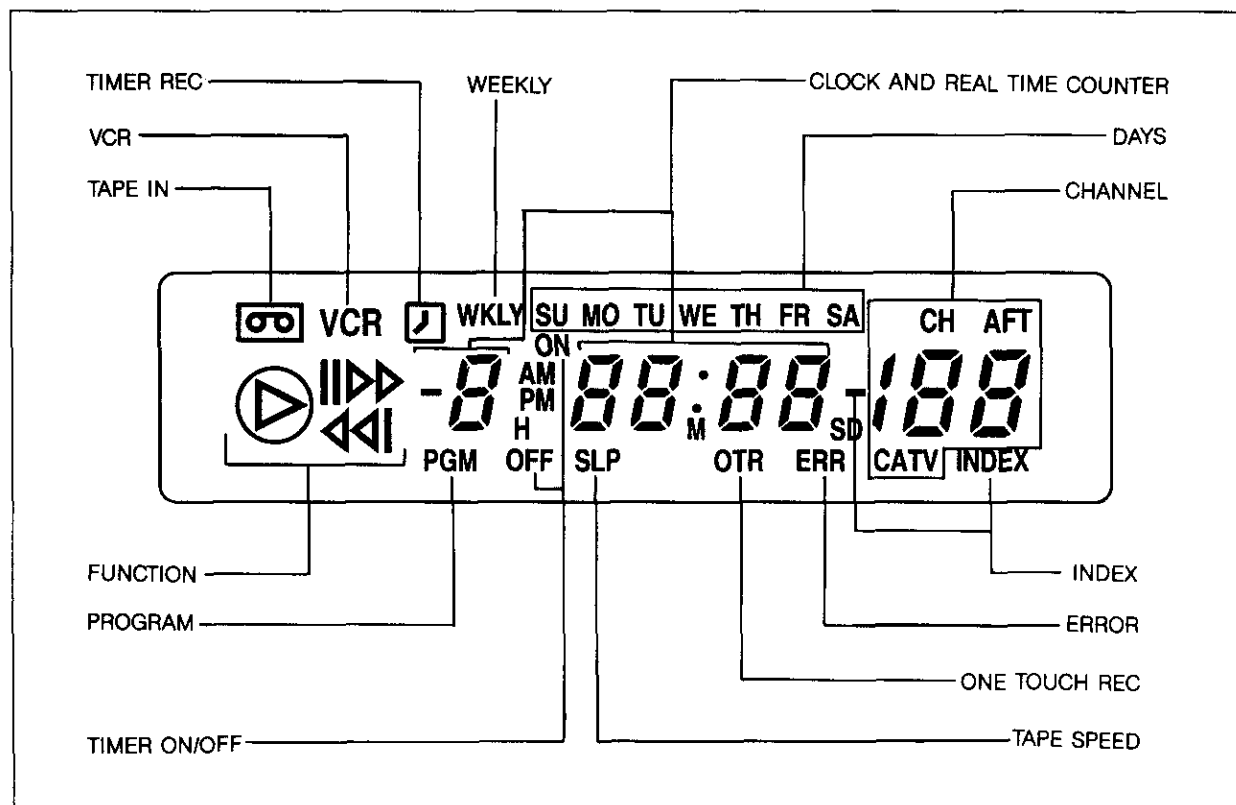


IDENTIFICATION (1)







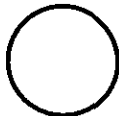
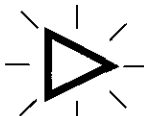

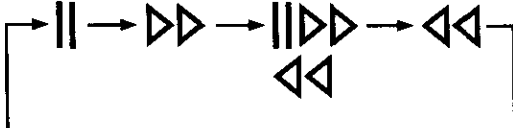


FRONT OF VCR



MULTI-FUNCTION DISPLAY



FUNCTION INDICATOR

<p>① PLAY:</p> 	<p>② SLOW:</p> 
<p>③ CUE:</p> 	<p>④ FAST FORWARDING</p> 
<p>⑤ REVIEW:</p> 	<p>⑥ REWINDING:</p> 
<p>⑦ RECORDING:</p> 	<p>⑧ AUTO TRACKING:</p> 
<p>⑨ STILL:</p> 	<p>⑩ EMERGENCY</p> 
<p>Ⓜ PAUSE</p> 	<p>*  means blinking</p> <p>* Malfunction might happen due to external influences. In that case, emergency sign appears on Multi-Function Display and press POWER key to release it.</p>

IDENTIFICATION (2)

REAL TIME COUNTER

- Real time counter is a numerical guide indicating how much a tape moved in PLAY, REW, FF, or SLOW mode, with the sign of hour, minute and second displayed on digitron.

EXAMPLE 1) When a tape plays for one hour twenty minutes and fifty five seconds.

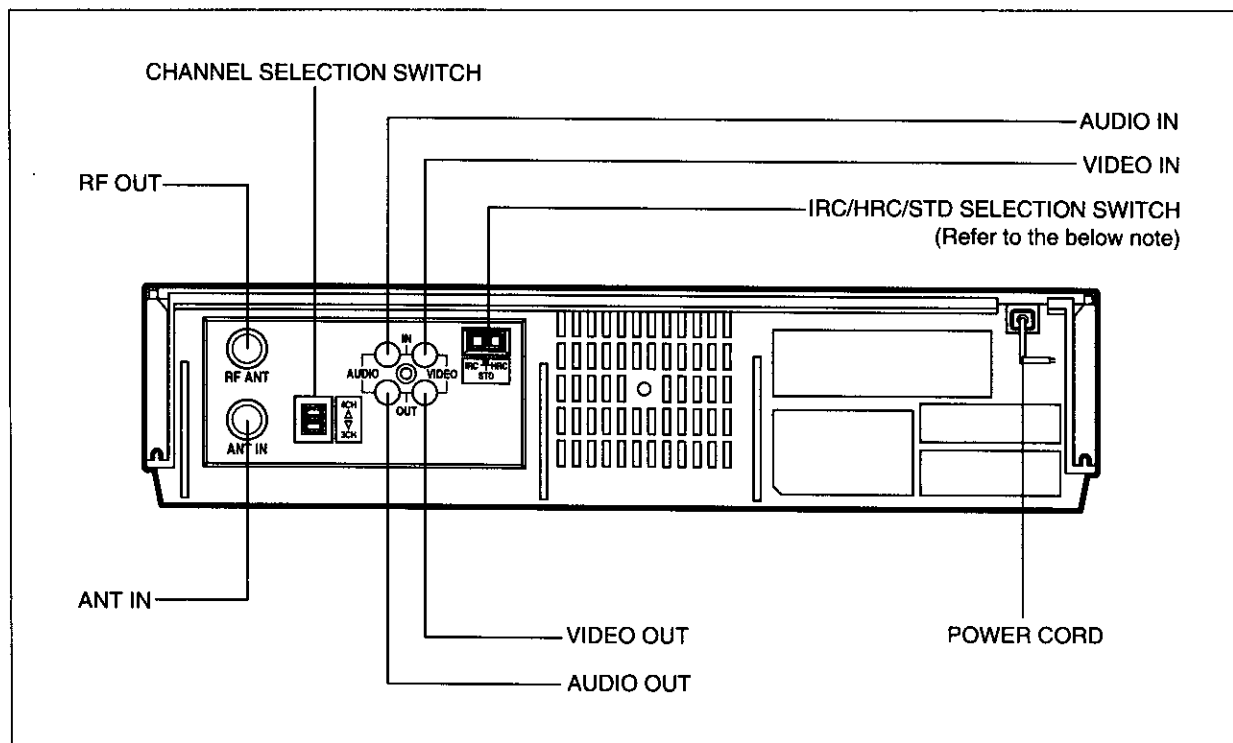


EXAMPLE 2) When a tape rewinds for the time equivalent to the playing time of twenty five minutes and thirty seconds.



- COUNT RESET
Please reset the counter into 0.00.00, by pressing the COUNT RESET button.
- COUNT ϕ STOP
This button makes you search easily the 0.00.00, part of the tape with fast rewinding/forwarding operation. (Refer to page 18)

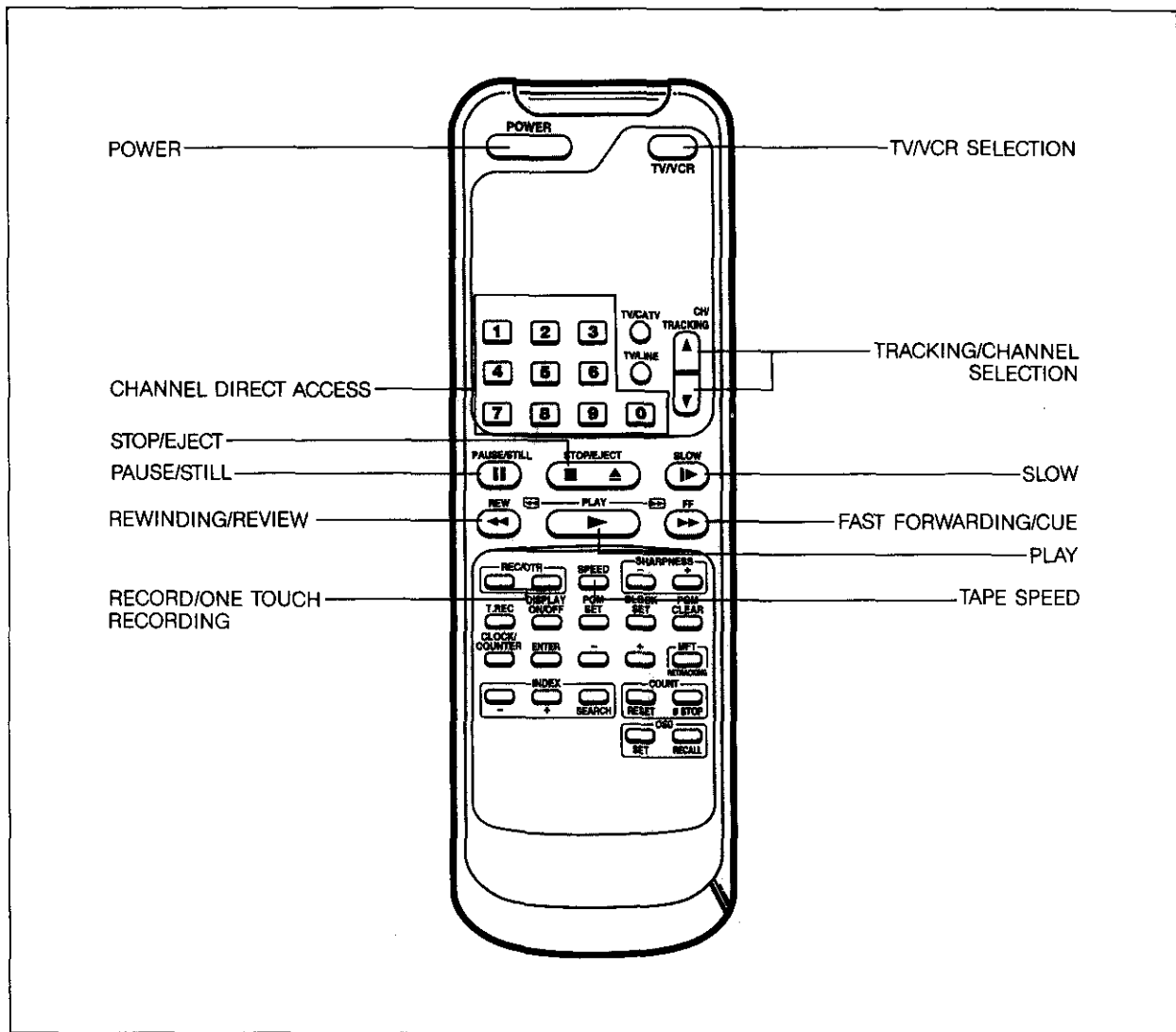
REAR OF VCR



- **NOTE: CABLE SYSTEM SELECTION**
 1. If your cable system includes a converter box supplied by Cable Company, from which you select channels, you do not need to set the cable select switch on the rear panel of the VCR.
 2. If your cable system does not include a converter box, please set the cable selection switch to correspond with your cable system (HRC, STD, or IRC). Please consult with your Cable Company if necessary to confirm their type of cable transmission (HRC, STD or IRC).

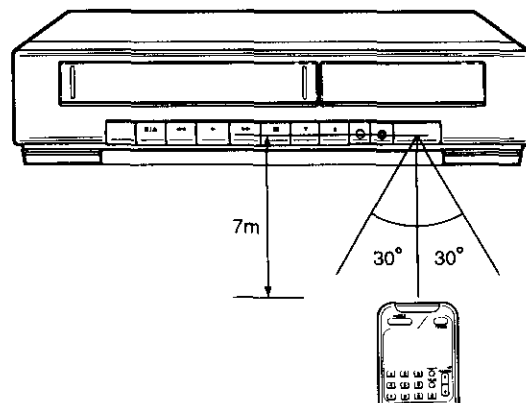
IDENTIFICATION (3)

REMOTE CONTROLLER (1)-BASIC FUNCTIONS

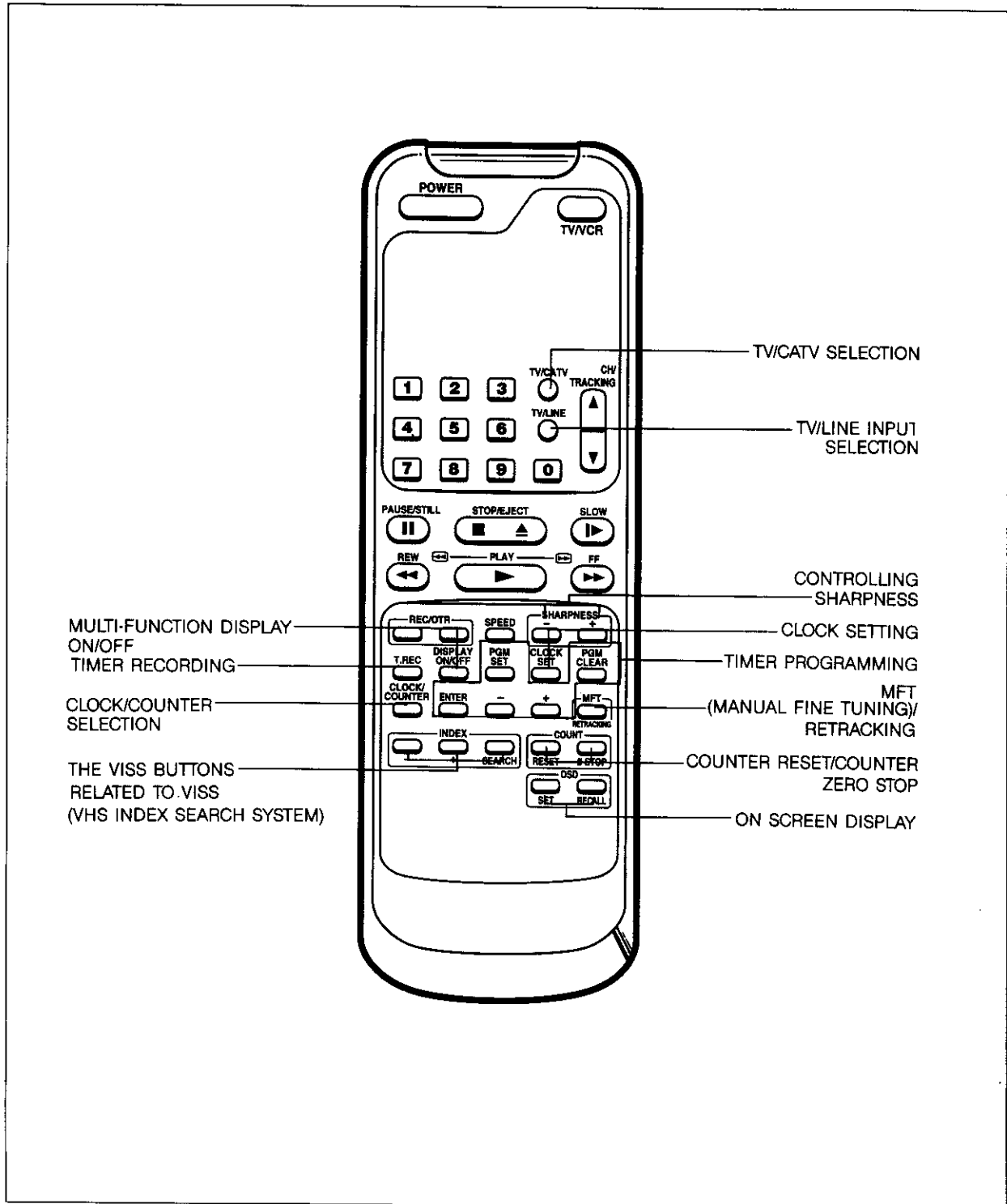


HOW TO USE REMOTE CONTROLLER

- Remote controller can be worked within 7 m distance from VCR
- Function keys do not work when pressing several keys at the same time, except for REC buttons.
- It is advisable to take batteries out of remote controller when not in use for long time.



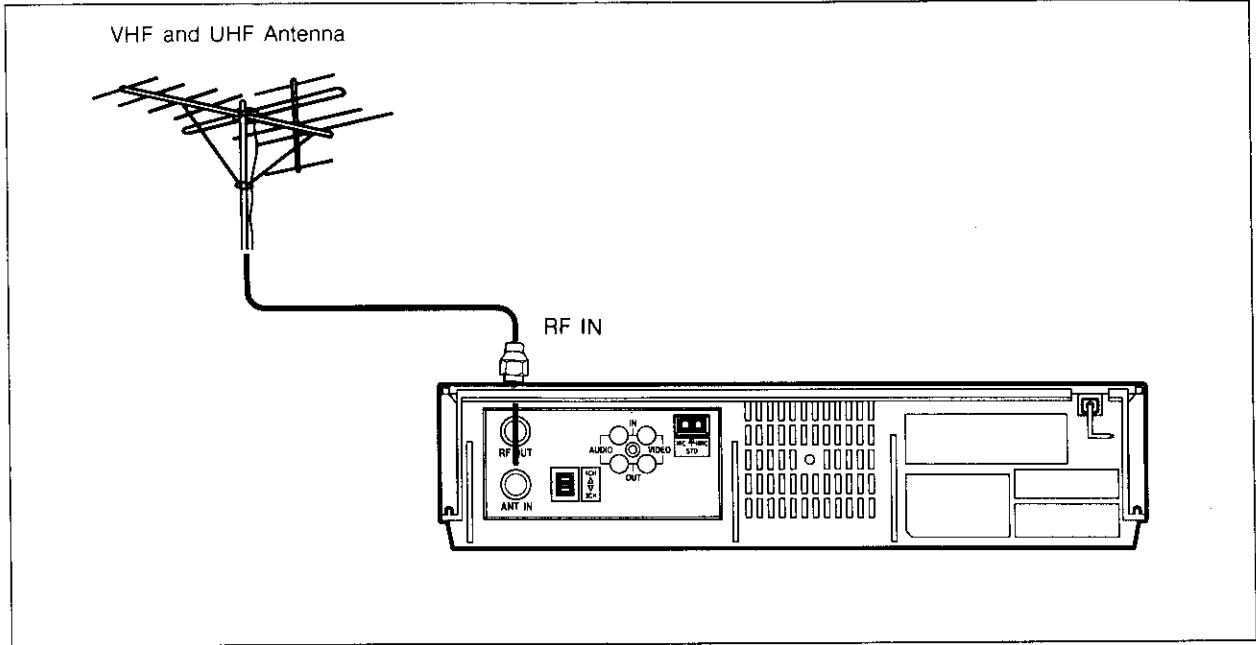
REMOTE CONTROLLER (2)-ADDITIONAL FUNCTIONS



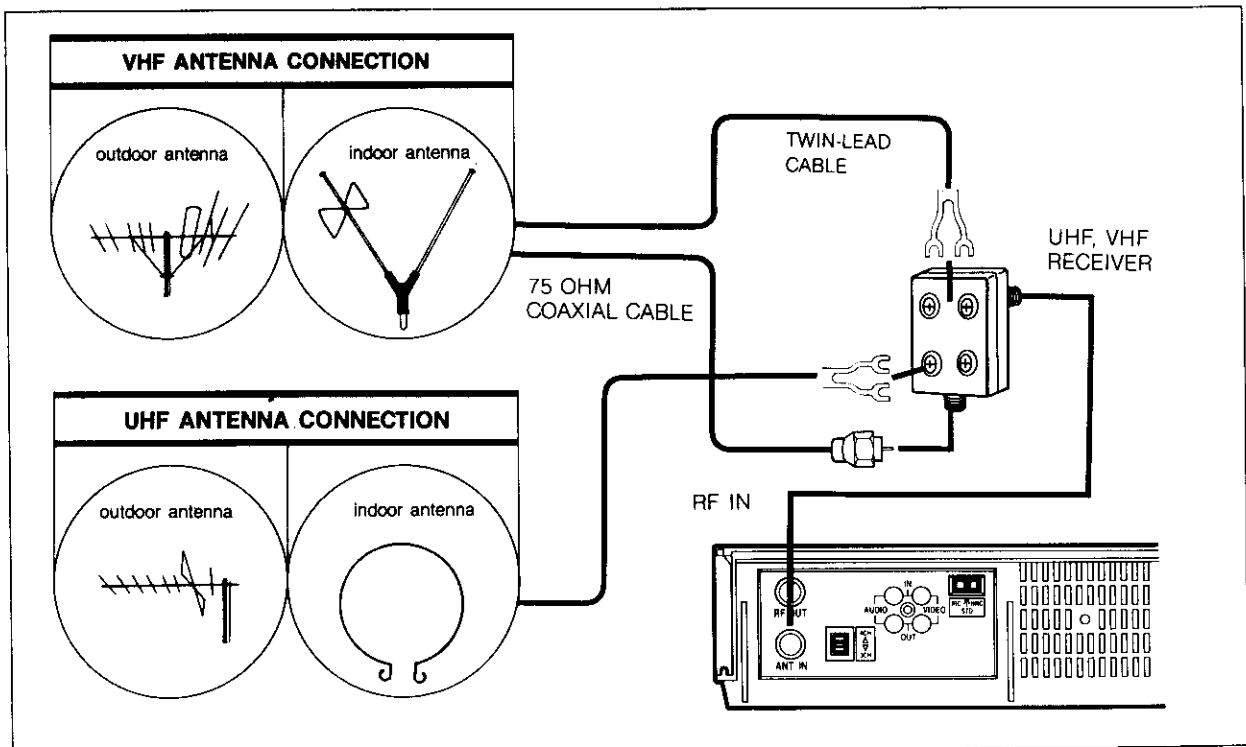
INSTALLATION (1)

ANTENNA CONNECTION

- In case of unified VHF/UHF antenna



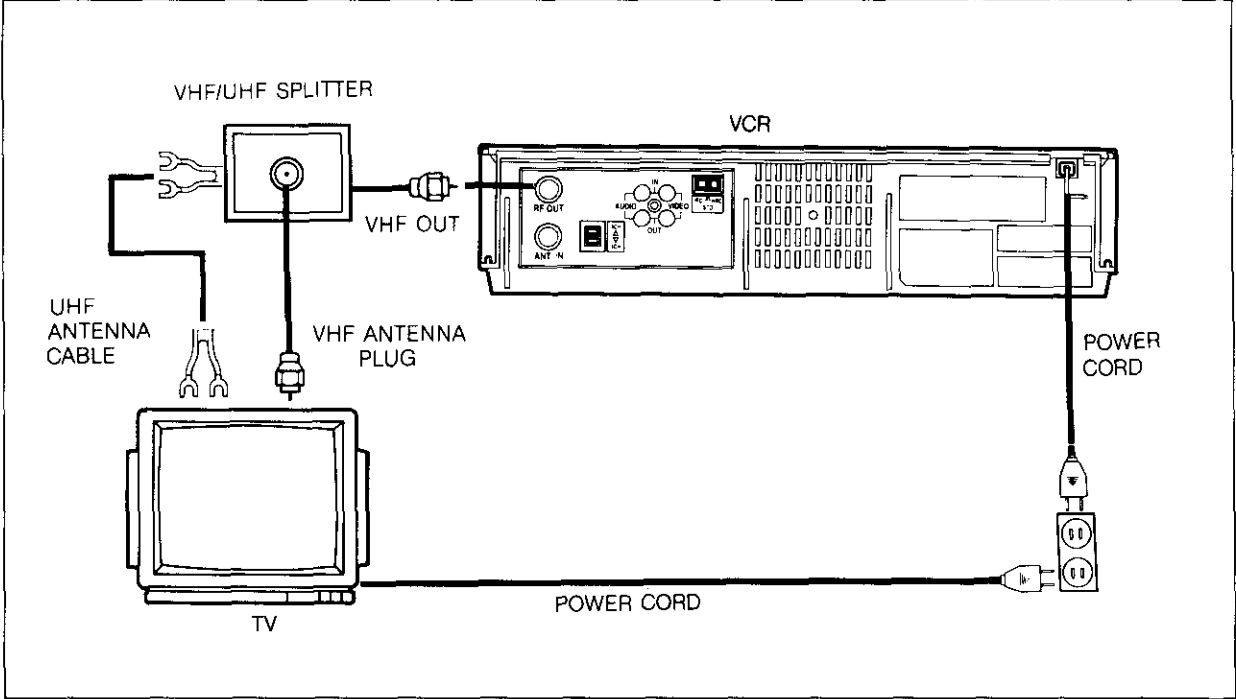
- In case of separate VHF/UHF antenna



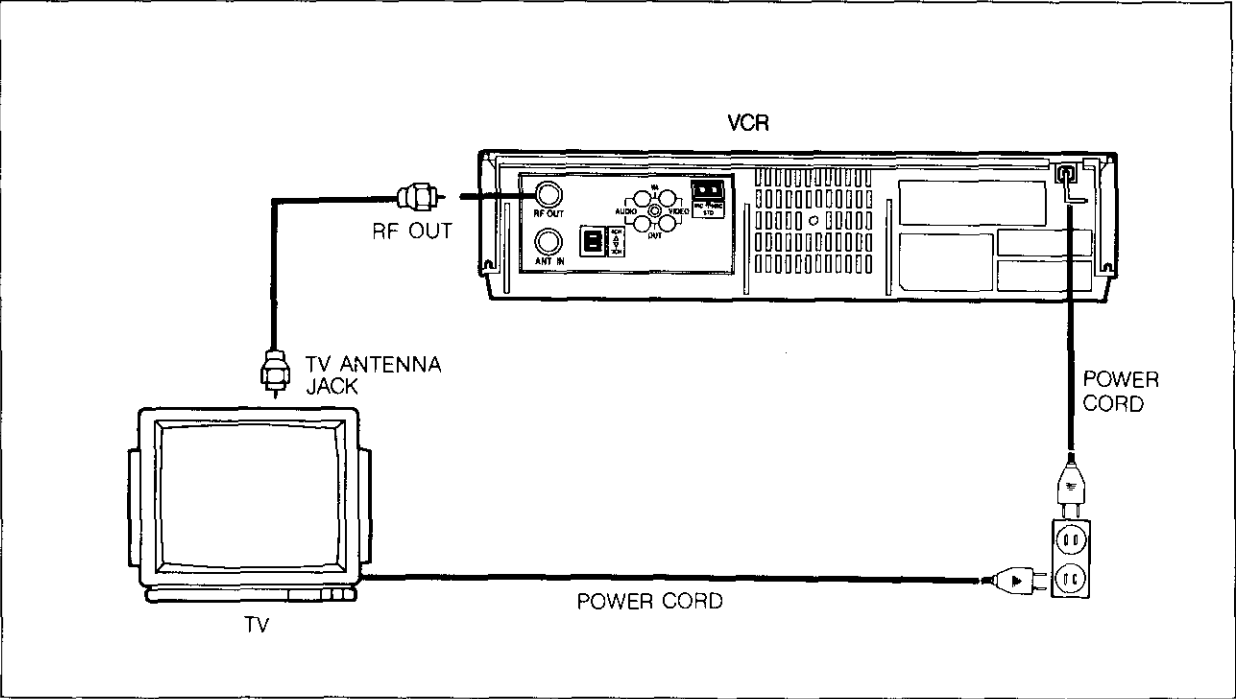
INSTALLATION (2)

CONNECTING VCR TO TV (1) USING COAXIAL CABLE

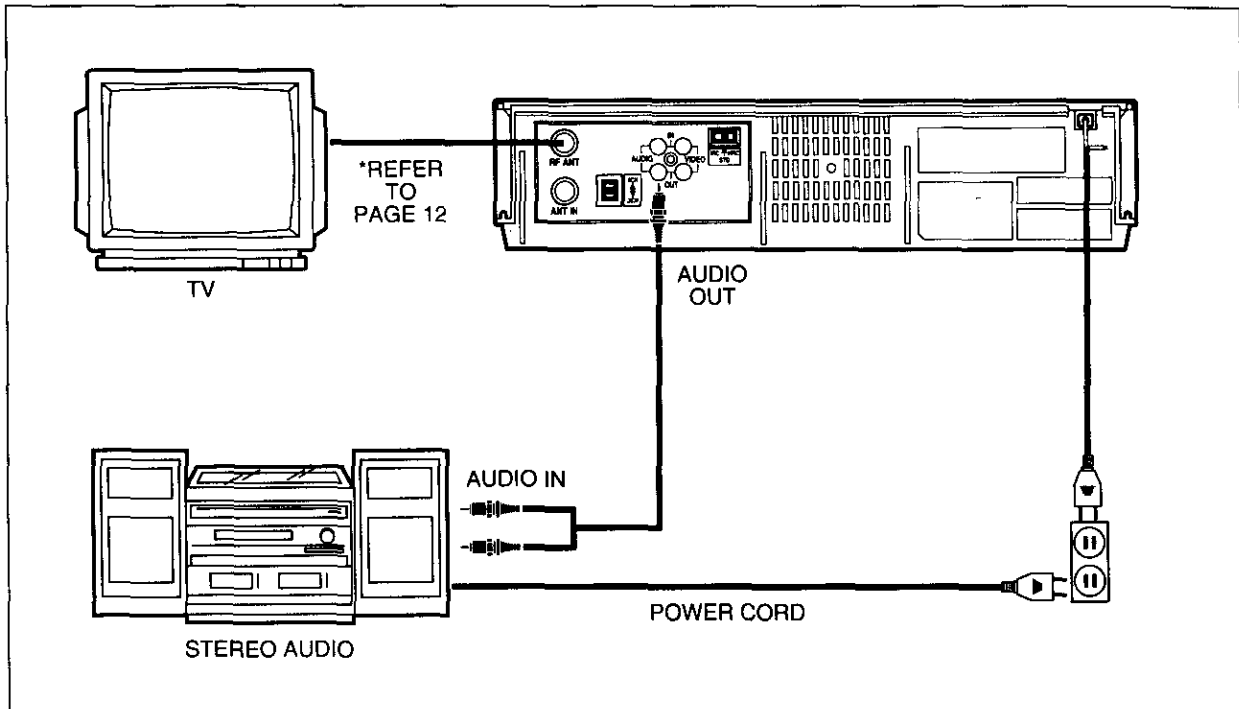
- In Case of TV with separate VHF/UHF terminal



- In case of TV with unified VHF/UHF terminal



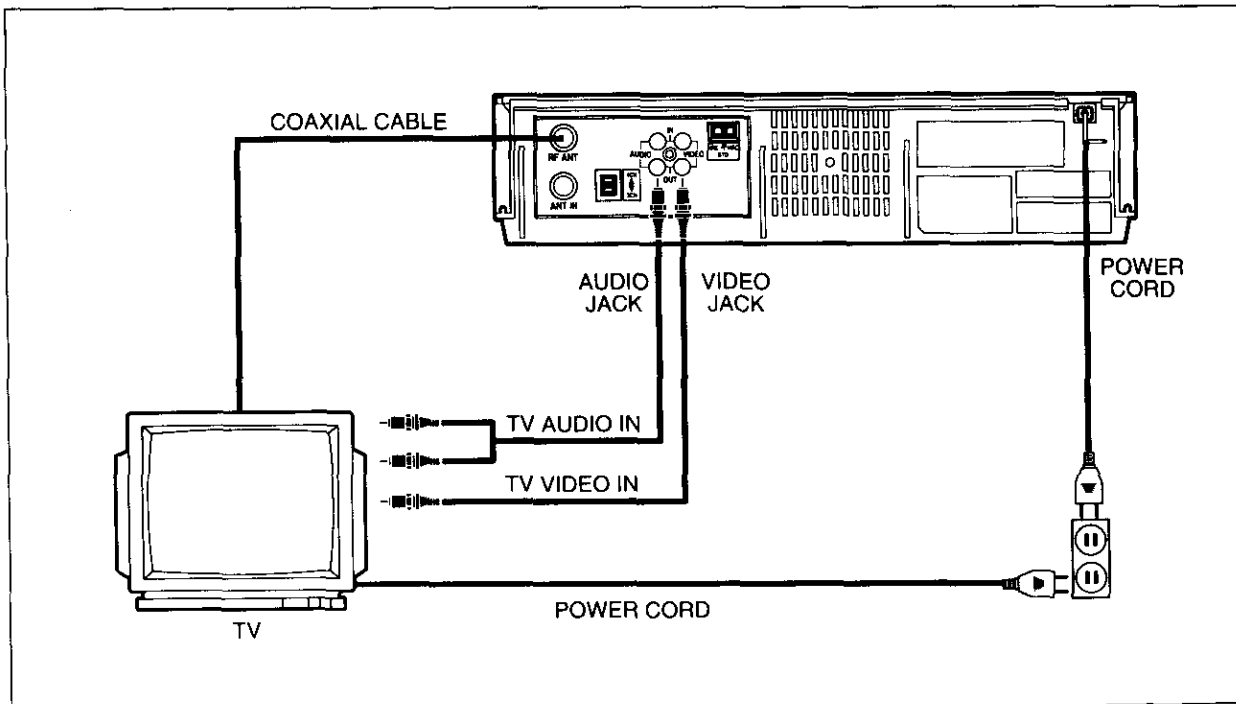
CONNECTING VCR TO AUDIO



- **NOTE:** It is advisable to turn POWER OFF while connecting VCR, TV, as well as Audio.
This VCR is a monoral player. It will not play in stereo even if it is connected to a stereo system.

CONNECTING VCR TO TV (2)-USING AV JACK

- In case of TV with AV jacks

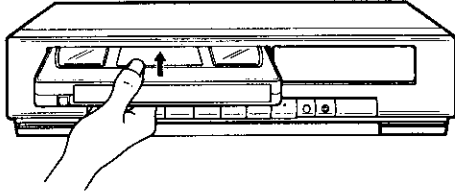


BASIC OPERATION

VIDEO CASSETTE

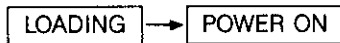
LOADING

Upon inserting the cassette, the power is automatically on without pressing the button.

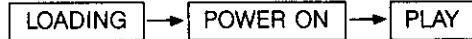



The new motorized loading system allows a cassette to be loaded even when the power has not been turned on, as long as the AC power cord is plugged in.

- Inserting a cassette with its safety tab in place turns the recorder on automatically.



- Inserting a cassette with its safety tab removed not only turns the recorder on, but playback of the cassette begins automatically, due to the new auto-play function.



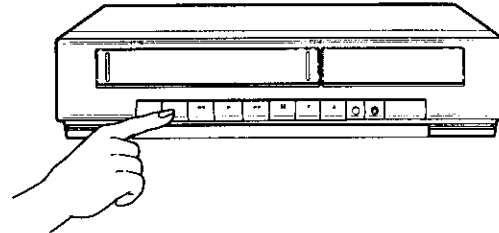
- With a cassette inserted, the  mark appears on the fluorescent display panel to indicate a cassette has been inserted.

Notes:

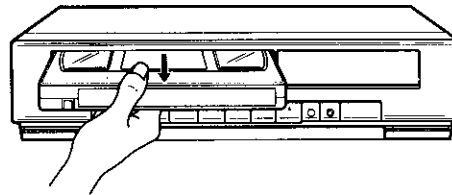
- An inverted cassette cannot be inserted.
- Be sure to insert the cassette firmly into the slot; otherwise, it will be automatically ejected.
- The automatic loading mechanism will operate only when the cassette is inserted correctly.
- When the unit is unplugged into a power outlet, do not insert cassette.

UNLOADING

Press Eject button.



Remove the cassette smoothly.

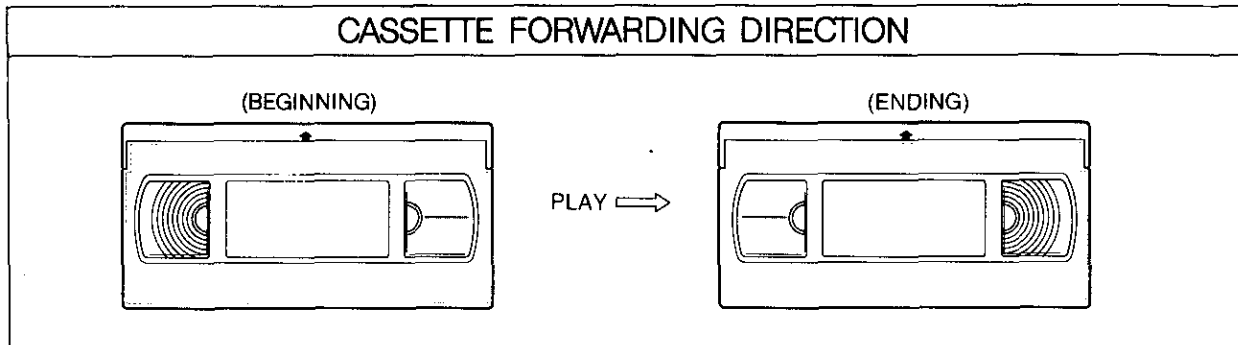


Due to the new motorized unloading system, a cassette can be unloaded even when the power has been turned off.

- If a cassette is inside, pressing the EJECT button turns power on automatically and, after ejection of the cassette, shuts it off automatically.

CAUTION

- If unloading of a cassette is not possible, check to see whether the TIMER indicator is lit. If so, press the TIMER button so the TIMER indicator extinguishes.
- Do not attempt to pull out the cassette once automatic loading has started.
- Do not insert fingers or any foreign object beyond the door flaps of the cassette loading slot, as this could lead to injury or damage to the mechanism. Show special caution with children.



- Avoid exposing the cassettes to direct sunlight. Keep them away from heaters.
- Avoid extreme humidity, violent vibrations or shocks, strong magnetic fields (near a motor, transformer or magnet) and dusty places.
- Place the cassettes in cassette cases and position vertically.

TYPES OF VIDEO CASSETTE

Use type with the **VHS** mark in this unit.

Recording/Playback Time (min.)

Type	Maximum Recording/Playback Time		
	SP Mode (Standard Play)	LP Mode (Long Play)	SLP Mode (Super Long Play)
T-160	160 min.	320 min.	480 min.
T-120	120 min.	240 min.	360 min.
T-90	90 min.	180 min.	270 min.
T-60	60 min.	120 min.	180 min.

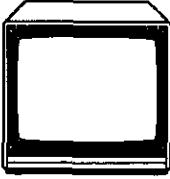
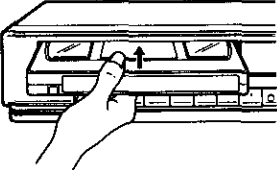
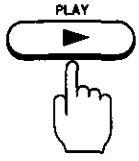
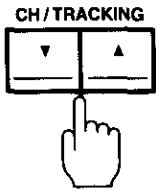

ERASE PROTECTION


Video cassettes are equipped with a safety tab to prevent accidental erasure. When the tab is removed, recording can not be performed. If you wish to record on a cassette whose tab has already been removed, use adhesive tape to block the hole.

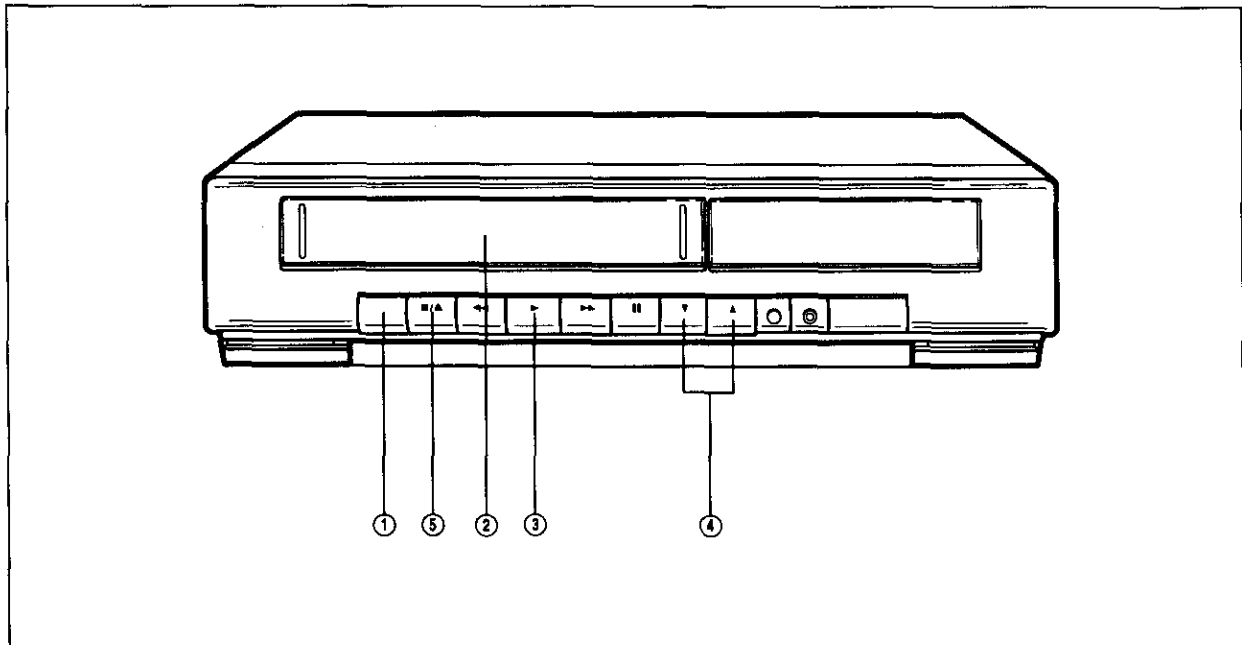
<ul style="list-style-type: none"> • Safety tab-intact cassette <p>Safety tab</p>	<ul style="list-style-type: none"> • To prevent accidental erasure <ul style="list-style-type: none"> • Break off the tab with a screwdriver 	<ul style="list-style-type: none"> • To record again <ul style="list-style-type: none"> • Cover the hole with cellophane tape
--	--	---




PLAYBACK

BASIC PLAYBACK OPERATION

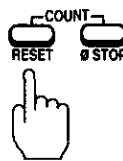

<p>① POWER</p> <p>Power ON</p>  <p>Set TV channel to 3 or 4, whichever is not in use in your TV broadcasting area.</p>	<p>② LOADING</p> <p>Insert a cassette</p>  <p>Upon inserting a cassette, power will be on automatically.</p>	<p>③ PLAYBACK</p> <p>Press PLAY</p> 
<p>④ TRACKING</p> <p>Adjust picture quality with CH/TRACKING keys</p> 	<p>⑤ STOP/EJECT</p> <p>Press once to stop and twice to eject</p> 	<p>* When VCR turned on and a cassette is inserted, a motor in VCR is operating for stand-by to another mode. If you want to stop watching VCR, please turn off or eject the cassette.</p>

- This VCR automatically adjust tracking. If it is necessary to adjust picture quality, use tracking keys.
- Pressing TRACKING key will indicate  (blinking) sign on digitron display and will adjust tracking automatically.

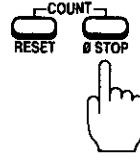



FAST FORWARDING	REWINDING	EJECTING
<p>Press FF key (in STOP mode)</p> 	<p>Press REW key (in STOP mode)</p> 	<p>Press EJECT key (in STOP mode)</p> 

TO SET COUNTER MEMORY

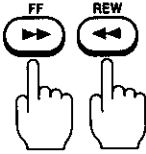
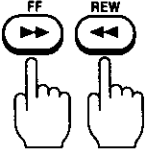


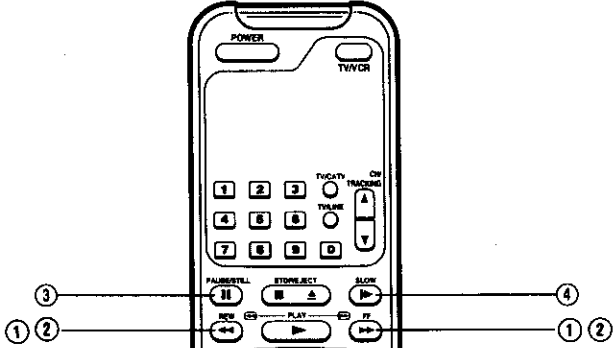
<p>Press the COUNTER RESET key at a point which you may wish to locate later.</p> 	<p>The counter will indicate. 0.00.00.</p> 
--	--

TO LOCATE SPECIFIC SCENE

<p>Press the COUNTER ϕ STOP key.</p> 	<p>The tape will rewind (or fast forward) and stop at about the 0.00.00 counter reading automatically.</p> 
--	--

SPECIAL EFFECTS AND OPERATIONS

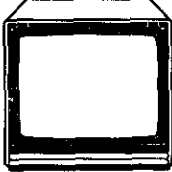
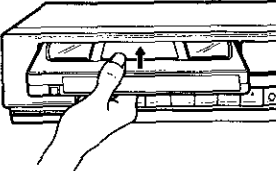

SPECIAL EFFECTS IN PLAYBACK MODE (BEST IN SP+SLP SPEED: SOUND IS MUTED)

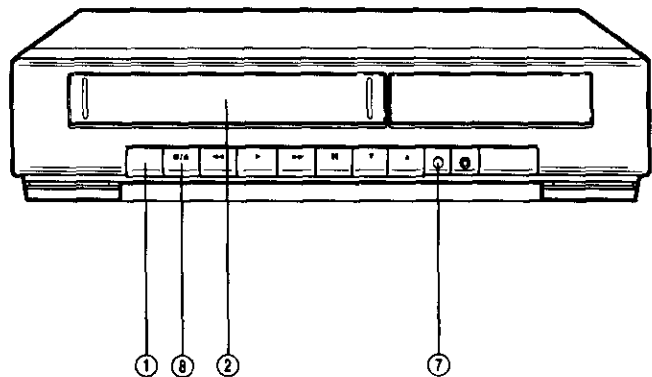
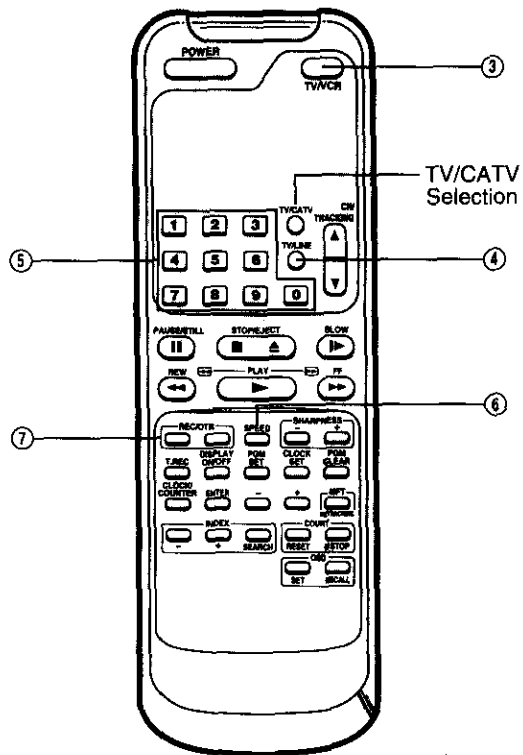
<p>① TO RAPIDLY LOCATE A PARTICULAR SEGMENT</p> <ul style="list-style-type: none"> Press the REW or FF Button. This starts a fast forward or reverse visual search in the first step. (SP: $\times 3$, SP: $\times 5$)  <ul style="list-style-type: none"> Press the PLAY Button to return to playback. 	<p>② TO VIEW A DOUBLE SPEED PLAYBACK PICTURE</p> <ul style="list-style-type: none"> Press the REW or FF Button twice. This starts a fast forward or reverse visual search in the second step. (SP: $\times 7$, SLP: $\times 21$)  <ul style="list-style-type: none"> Press the PLAY Button to return to playback 	<p>③ TO VIEW A STILL PICTURE (DURING PLAYBACK)</p> <ul style="list-style-type: none"> Press the PAUSE/STILL Button. A freeze frame picture of the playback image appears.  <ul style="list-style-type: none"> Press the PLAY Button to return to playback
<p>④ TO VIEW A SLOW PICTURE</p> <ul style="list-style-type: none"> Press the SLOW button.  <ul style="list-style-type: none"> The picture will slowly advanced frame by frame. 		

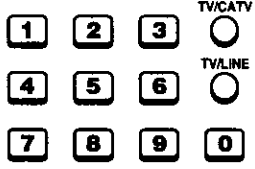

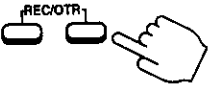
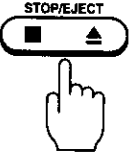
PLEASE NOTE:

- In SEARCH and STILL as well as SLOW mode, no sound will be heard.
- After 5 minute in SLOW mode, PLAY mode will be resumed automatically.
- Squeezed picture could be seen while switching from search mode to PLAY mode. This is NOT a sign of malfunction.
- In SEARCH and STILL as well as SLOW mode, OSD sign cannot be displayed on TV screen.



RECORDING TV PROGRAMS

① POWER	② LOADING	③ TV/VCR	④ TV/LINE KEY
<p>Set TV channel to 3 or 4 whichever is not in use in your TV broadcasting area.</p> 	<p>Upon inserting a cassette, power will be on automatically.</p> 	<p>Check that VCR sign on digitron is lighted (if it is not on, press TV/VCR key to turn it on).</p>	<p>Press the TV/LINE key to display CH No. on digitron.</p> 



⑤ CHANNEL SELECTION	⑥ RECORDING SPEED	⑦ RECORDING	⑧ STOP/ INTERRUPTION
<p>Select the channel which you want to record (from 02→69)</p> 	<p>Select recording speed (SP or SLP)</p> 	<p>Press two REC keys at the same time, Recording will start. Press only one button (REC) in VCR main body when recording without using remote control</p> 	

FINE TUNING

<p>For fine tuning of your selected channel, press MFT button on Remote control.</p> 	<p>Adjust with +/- buttons for the best picture and sound.</p> 
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TO RECORD CATV PROGRAM


<p>Follow step ①-④ In step ⑤, use TV/CATV button and select CATV mode. (Check that CATV sign on digitron is lighted) Select the channel which you want to record. Follow from step ⑥-⑧.</p>

PLEASE NOTE:

Safety tab-broken tape will be ejected automatically if recording button is pressed.

* Removing the safety tab will protect your recording from accidental erasure. If you wish to record on a cassette whose tab has already been removed, use adhesive tape to block hole.

RECORDING ONE PROGRAM WHILE VIEWING ANOTHER ON TV

<p>Recording a program can be done while watching another program on TV.</p> 	<p>1 Follow step ①~⑦ of recording</p>	<p>2 Turn off VCR lamp by pressing TV/VCR button</p>	<p>3 Use TV's channel selection switch and watch the program you want (meanwhile, the VCR is recording another program)</p>
--	--	---	--

ONE TOUCH RECORDING (OTR)

OTR is a very easy and convenient way to immediately start recording a TV program you happen to be watching without programming the TIMER. When OTR is complete, the VCR automatically shuts off.

A. INSTANT OTR

Recording starts instantly and the VCR will shut off when the recording is complete. You can set the recording length in 30 minute periods up to 4 hours total, or to the end of the tape.

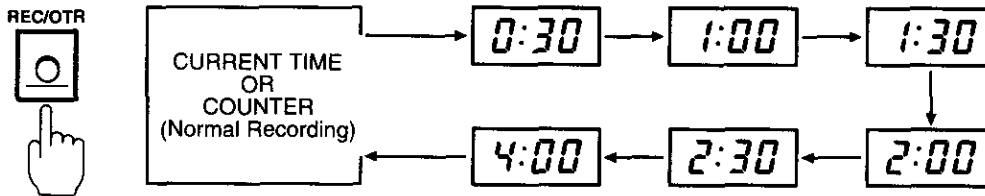
Occasions for Use:

- For normal recording of TV programs.
- When an unexpected guest or call is received.
- When you are unexpectedly called away from home

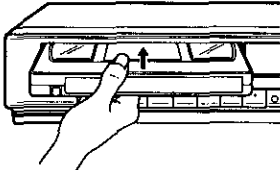
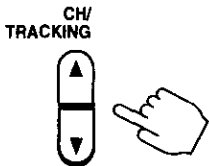

OTR Preparations

MAKE SURE THAT...

- the clock is set the correct time.
- the desired tape speed (SP, LP or SLP) is selected.
- the record tab is not missing on the cassette.
- the tape is long enough to record the programs.



INSTANT OTR

① Cassette In	② Selecting Channel	③ Recording
<p>Insert a safety-tab intact cassette</p>  <p>VCR in stop mode</p>	<p>Select the CH you want to record</p> 	<p>Continue to press the REC/OTR Button until the desired length appears.</p>  <p>Each press of the REC/OTR Button adds 30 minutes. Normal Recording → 0:30 → 1:00... → 4:00 → Normal Recording</p>

*To release OTR mode, press the POWER Button.

CLOCK ADJUSTMENT

Accurate clock time is a must for all types of timer recording.

TO SET THE CLOCK

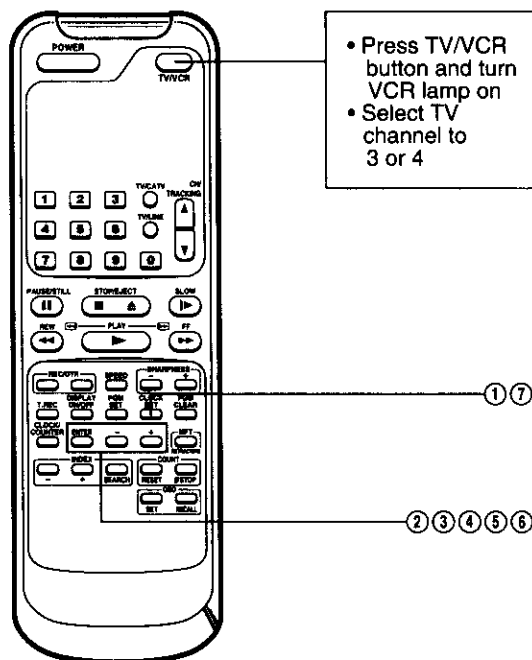
When the VCR and TV are turned on for the first time, the clock set guide will appear on the TV screen. If the guide disappears, press the CLOCK SET Button to recall it.

Be sure that the TV/VCR Selector is set to the VCR position.

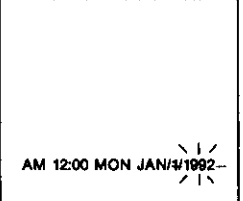

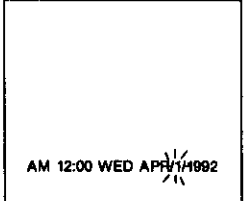

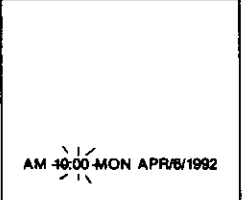
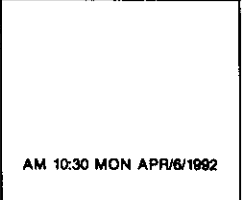
TO MAKE CORRECTIONS IN ON-SCREEN ENTRIES

To make corrections after entering a number, press the ENTER Button to move the flashing indication one space left. Enter the correct number. The flashing indicator will then move one space right.

Example: Present Time-10:30 April 6, 1992



- Press TV/VCR button and turn VCR lamp on
- Select TV channel to 3 or 4

<p>① Select the Clock Set Mode</p>	<p>② Year</p>	<p>③ Month</p>	<p>④ Date</p>
<ul style="list-style-type: none"> • Press CLOCK SET key 	<ul style="list-style-type: none"> • Adjust +/- keys to set YEAR (1992) • Press ENTER. 	<ul style="list-style-type: none"> • Adjust +/- keys to set MONTH (APR). • Press ENTER. 	<ul style="list-style-type: none"> • Adjust +/- keys to set DATE. • Press ENTER. 
<p>⑤ Hour</p>	<p>⑥ Minute</p>	<p>⑦ Start the Clock</p>	
<ul style="list-style-type: none"> • Adjust +/- keys to set HOUR (AM 10:00) • Press ENTER. 	<ul style="list-style-type: none"> • Adjust +/- keys to set MINUTES (00:30) 	<ul style="list-style-type: none"> • Press CLOCK SET key, time indication on screen will be erased. 	

PROGRAMMING THE RECORD TIMER

ON SCREEN DISPLAY

OSD (On Screen Display) provides convenient visual display of every operation on TV screen.

OSD SET Function Button on the Remote Control

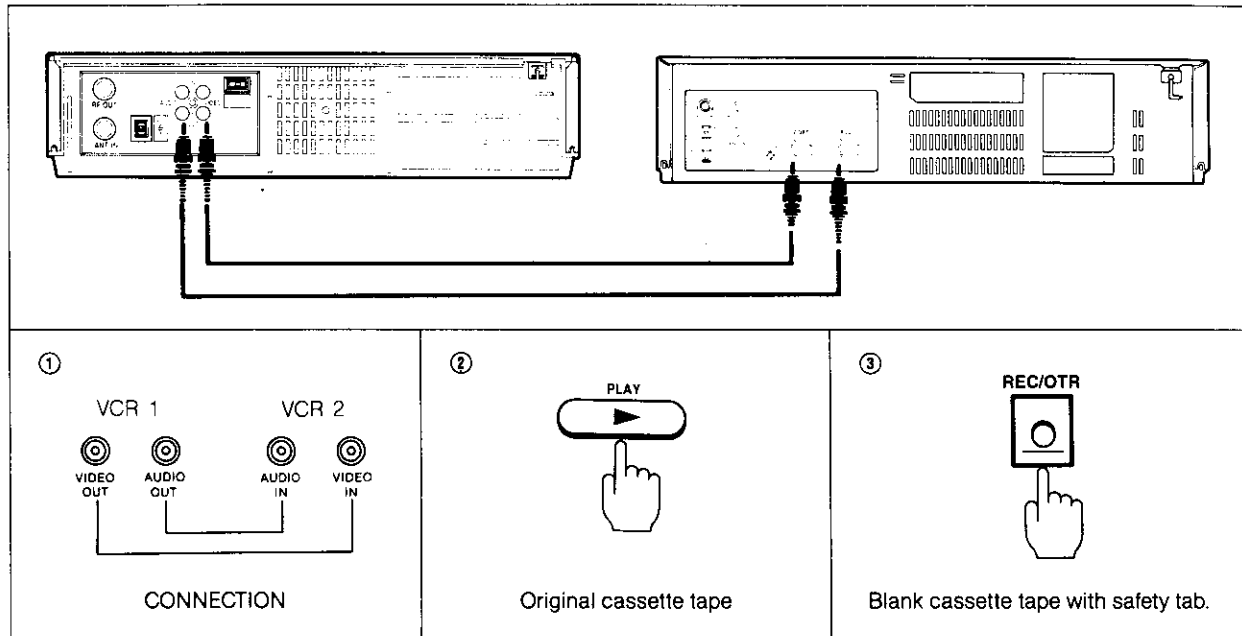
1. When it's pressed in basic operations (Play, Stop, FF/REW, Eject), it will turn OSD ON and OFF only.
2. When it's press in program set mode, function mode letters will appear onto blue background.
When pressed once more, function mode letters remain and picture resumes.

*The RECALL key makes on screen display continued until pressing it again. OSD RECALL can function in OSD OFF mode.

DUPLICATION

VCR TO VCR DUBBING

EXAMPLE: Suppose VCR 1 is a playing VCR which the original cassette is located and VCR 2 is a recording VCR which a blank cassette is loaded.



TIMER RECORDING

The TIMER feature let: you set the VCR with the REMOTE CONTROL to do unattended recording(s). For each program you set, the VCR will turn itself on at the scheduled time, do the recording, and turn off automatically. The types of Timer Recordings you can do are described in the box below. Instructions for each step appear on the TV screen after you select the program mode.

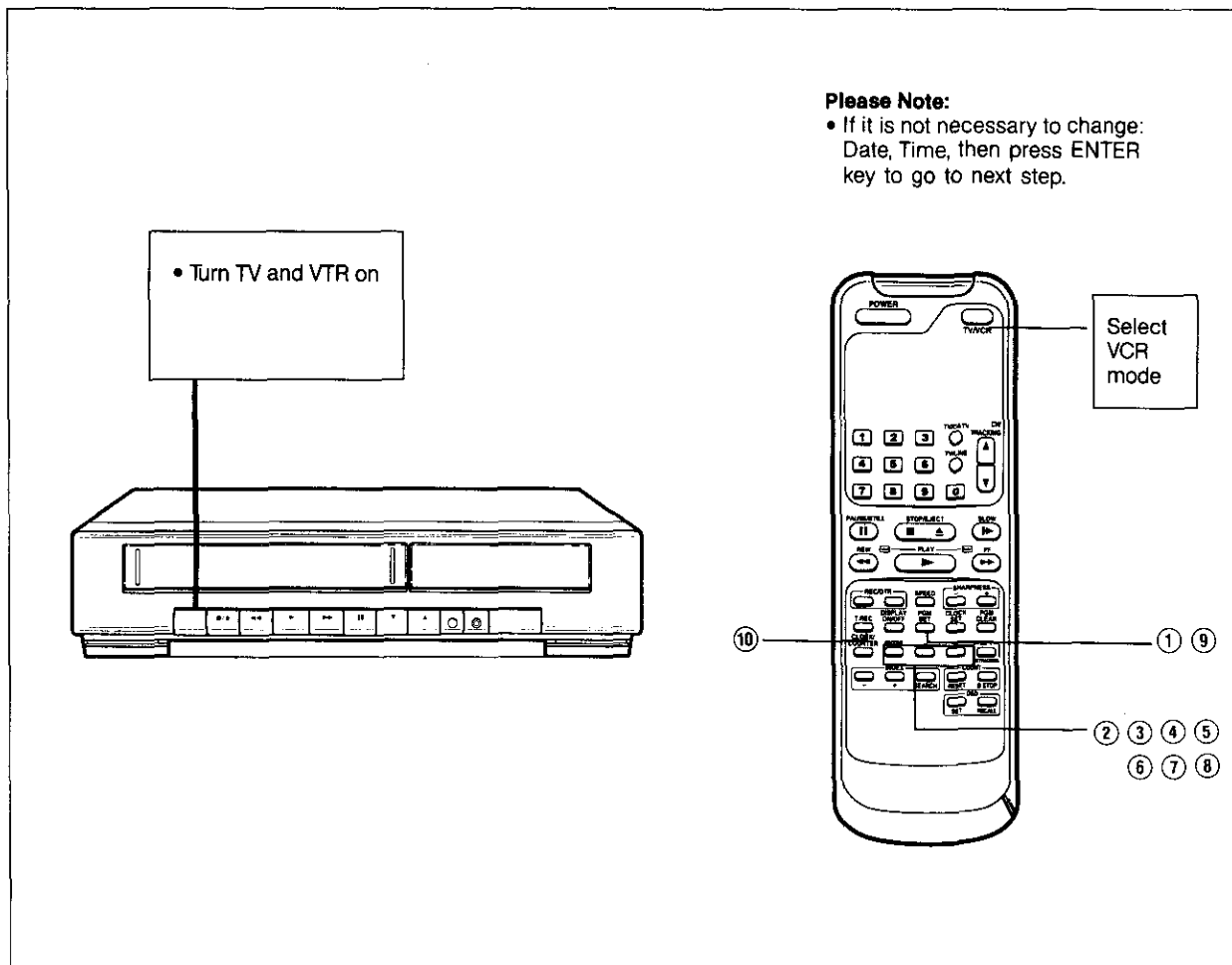
YOU CAN PROGRAM THE TIMER TO:

- Record a program on any day you choose up to one month away (One Time recording).
- Record once a week at the same time, length and day of each week (Weekly recording).
- Record everyday at the same time and length (Daily recording).

MAKE SURE THAT.....

- the VCR/TV Selector is set to "VCR".
- the clock is set to the current time.
- the desired tape speed (SP, LP or SLP) is selected.
- the record tab is not missing on the cassette.
- the tape is long enough to record the programs.

The TIMER PROGRAMMING function allows you to preset programs as long as 1 month in advance and to record up to 8 different programs.



Please Note:

- If it is not necessary to change: Date, Time, then press ENTER key to go to next step.

EXAMPLE: Program the TIMER as follows:

Present Time: AM 10:30, April 6th, 1992.

The unattended recording time: May 5th, PM 9:10—PM 11:30

Recording content: CH 7 at SLP mode on PGM No. 3

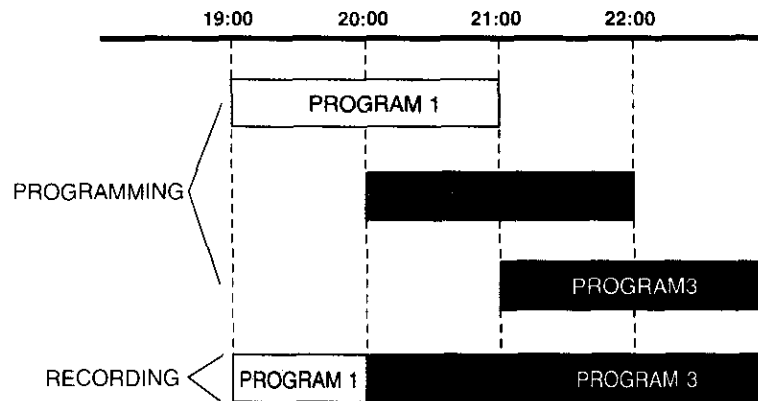
<p>① Recording Time</p> <ul style="list-style-type: none"> Press PGM SET button <pre> PROGRAM SET MODE NO DATE ON OFF CH 1 --- -- -- -- 2 --- -- -- -- 3 --- -- -- -- 4 --- -- -- -- 5 --- -- -- -- 6 --- -- -- -- 7 --- -- -- -- 8 --- -- -- -- </pre>	<p>② Selecting Program No.</p> <ul style="list-style-type: none"> Select PGM 3 with +/- key Press ENTER key <pre> PROGRAM SET MODE PGM NO. 3 OSD 2 SINGLE DATE : APR/6/1992 MON ON TIME : AM 10:30 OFF TIME : -- CHANNEL: 02 SPEED : SP </pre>	<p>③ Selecting Single/Daily/Weekly Mode</p> <ul style="list-style-type: none"> Select SINGLE mode with +, - keys Press ENTER Key <pre> PROGRAM SET MODE PGM NO. 3 OSD 2 SINGLE DATE : APR/6/1992 MON ON TIME : AM 10:30 OFF TIME : -- CHANNEL: 02 SPEED : SP </pre>	<p>④ Setting Month/Date</p> <ul style="list-style-type: none"> Set DATE with +/- keys Press ENTER Key <pre> PROGRAM SET MODE PGM NO. 3 OSD 2 SINGLE DATE : MAY/5/1992/TUE ON TIME : AM 10:30 OFF TIME : -- CHANNEL: 02 SPEED : SP </pre>
<p>⑤ Setting Time ON Time</p> <ul style="list-style-type: none"> Set HOUR with +/- keys Preset ENTER key <pre> PROGRAM SET MODE PGM NO. 3 OSD 2 SINGLE DATE : MAY/5/1992 TUE ON TIME : PM 9:30 OFF TIME : -- CHANNEL: 02 SPEED : SP </pre>		<p>⑥ Setting Time OFF Time</p> <ul style="list-style-type: none"> Set MINUTE with +/- keys Press ENTER key <pre> PROGRAM SET MODE PGM NO. 3 OSD 2 SINGLE DATE : MAY/5/1992 TUE ON TIME : PM 9:30 OFF TIME : PM 11:30 CHANNEL: 02 SPEED : SP </pre>	
<p>⑦ Setting Channel</p> <ul style="list-style-type: none"> Set CH 7 with +/- keys Press ENTER key <pre> PROGRAM SET MODE PGM NO. 3 OSD 2 SINGLE DATE : MAY/5/1992 TUE ON TIME : PM 9:10 OFF TIME : PM 11:30 CHANNEL: 07 SPEED : SP </pre>	<p>⑧ Selecting Recording Speed</p> <ul style="list-style-type: none"> Set SLP mode with +/- keys <pre> PROGRAM SET MODE PGM NO. 3 OSD 2 SINGLE DATE : MAY/5/1992 TUE ON TIME : PM 9:10 OFF TIME : PM 11:30 CHANNEL: 07 SPEED : SLP </pre>	<p>⑨ OSD Clear</p> <ul style="list-style-type: none"> Press PGM SET key. OSD (on-screen-display) will be disappeared. 	<p>⑩ Set</p> <ul style="list-style-type: none"> Press TIMER key Power will be off and timer sign will light up.

Please Note:

- In following cases. Timer recording cannot start: 1) When a cassette is not loaded.
2) When the safety tab is broken.

WHEN RECORD TIME OVERLAPS

While a program is being recorded, if the next one starts, the rest of the first program is not recorded.



CHECKING AND CANCELLING INPUT PROGRAMS

CHECKING INPUT PROGRAMS

① Programmed Example

Press ENTER key



PROGRAM REVIEW
PGM NO. 3
OSD 2
SINGLE
DATE : MAY/5/1992/TUE
ON TIME : PM 9:00
OFF TIME: PM 11:30
CHANNEL: 07
SPEED : SLP

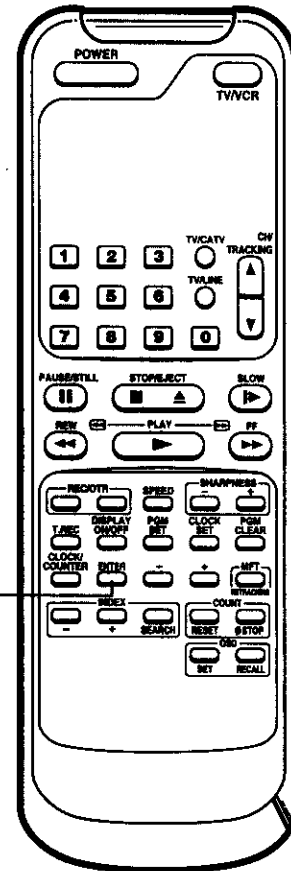
The details of PGM No. 3
appears on screen

② Unprogrammed Example

Checking PGM No. 1 upon PGM No. 8 with ENTER key.


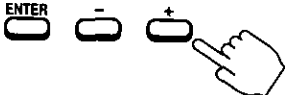



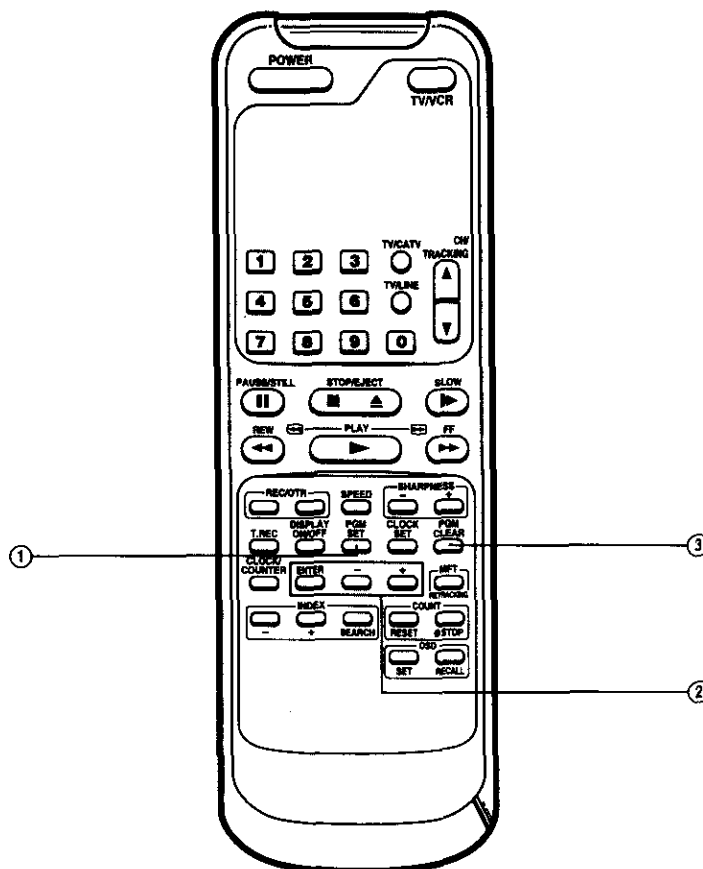
PROGRAM REVIEW
PGM NO. 3
OSD 2
SINGLE:
DATE : MAY/5/1992/TUE
ON TIME : :-
OFF TIME: :-
CHANNEL: 07
SPEED : SLP



CANCELLING INPUT PROGRAMS

EXAMPLE: To cancel PGM No. 3 which have been already programmed.

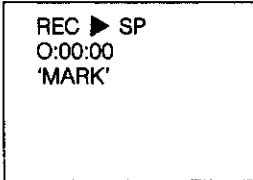
① Ready	② Selecting PGM No	③ Cancelling																																																																																																																																																																														
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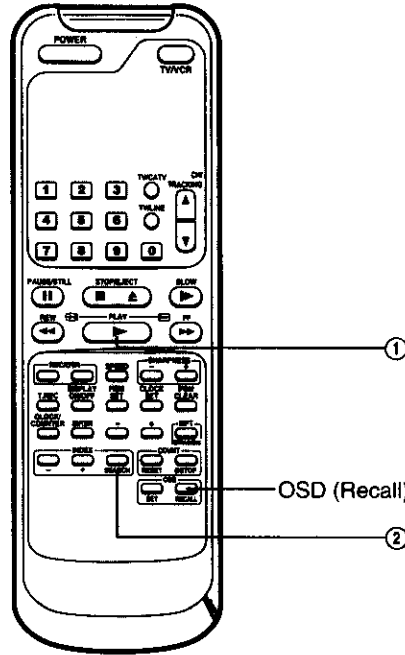
VISS (VHS INDEX SEARCH SYSTEM)

AUTO REGISTER

- When recording starts in normal and timer recording, INDEX MARK is automatically registered on video cassette tape.



- For a few seconds, on-screen-displayed INDEX MARK will last.
- INDEX MARK does not appear in OTR.

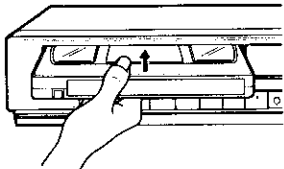

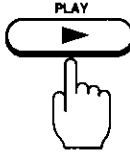



Please Note:

1. Index Mark cannot be registered on safety-tabless cassette.
2. A program must be recorded for at least for more than 5 minutes to operate VISS.
3. A cassette tape must be fast forwarded for few seconds when recording from the beginning of cassette tape.
 - *The beginning of a cassette tape is made of Transport tape. Recording and index marking cannot be done on this part due to absence of magnetic coating.

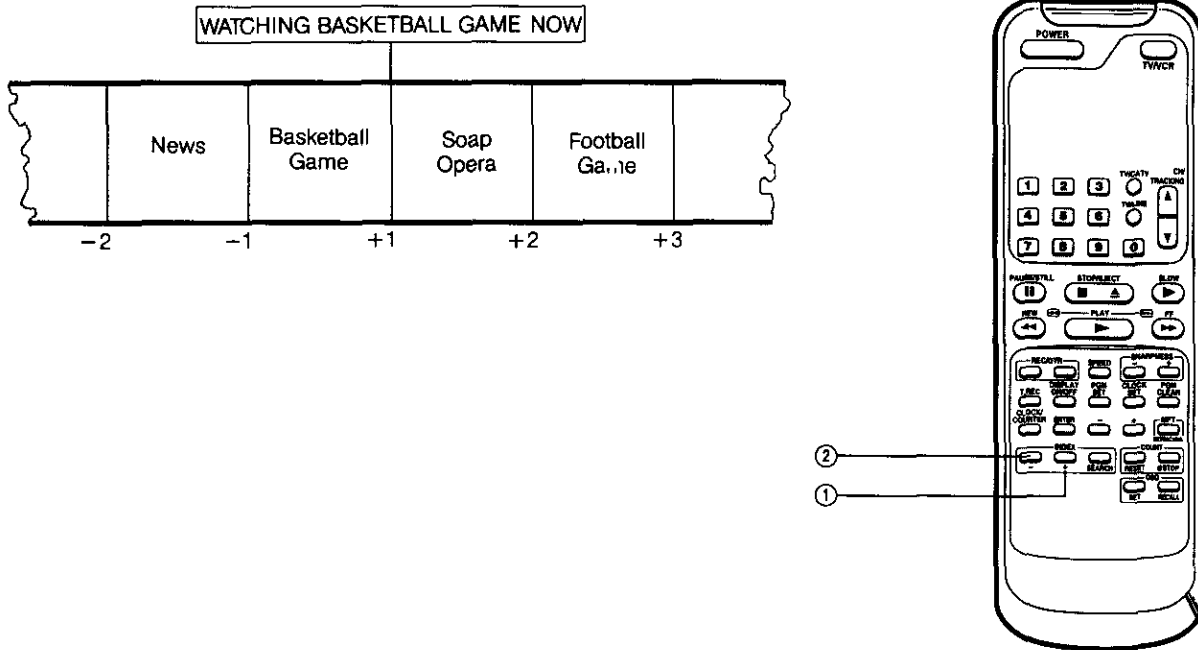
INDEX SEARCH

If the cassette is fully recorded, it will rewind automatically to the beginning and the index circuit will search for each code cue. When it finds one, the VCR shifts automatically into play mode for six seconds so that you can review the contents of that segment.

Preparation	① Index Search/Play	② To Interrupt
<ul style="list-style-type: none"> • Insert a index marked cassette which is recorded by this VTR 	<ul style="list-style-type: none"> • Press SEARCH key on the remote control. A cassette will be rewound to the beginning • The index function will automatically search (The VCR will play the first 6 seconds at every index marked segment and will search again. This process will be repeated at every index marked segment to the end of a cassette) 	<ul style="list-style-type: none"> • To interrupt while playing for 6 seconds to watch, press play key.  

INDEX SKIP

VISS also permits skipping to locate a particular section. By using the "Index + and -" keys, you can skip the programs you don't want to watch now and concentrate on those you wish to see.



EXAMPLE: From watching basketball game to football game.

① Index Skip

- Press INDEX (+) key twice
- VCR will fast forward and play from the beginning of football game

FF ►►
0:00:00
INDEX
P. 02

EXAMPLE: From watching basket ball to news.

② Index Skip

- Press INDEX (-) key twice
- VCR will rewind and play from the beginning of the news


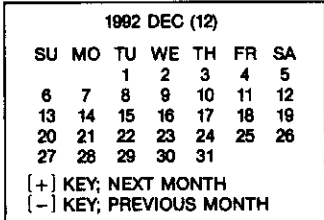
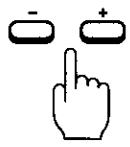
REW ◀◀
0:00:00
INDEX
P. 02

NOTE

You can play VISS-indexed cassettes on any VCR, and you can play recordings made on other equipment on this VCR. The on-screen display disappears within a few seconds in "Index Search" and "Index Skip" modes. It can be recalled by pressing the "OSD Recall" key. Pressing it once more will remove the on screen display.

CALENDAR

The centenary calendar is programmed from 1991 upto 2090.

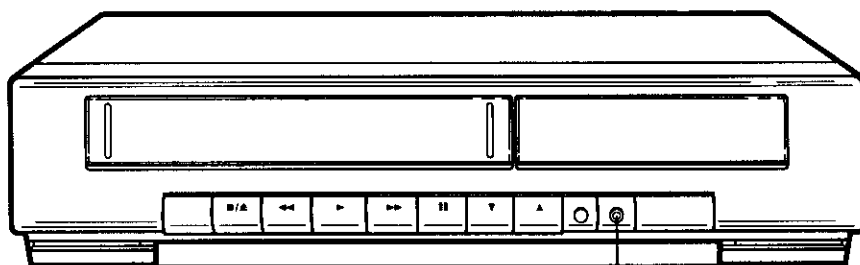
<ul style="list-style-type: none">To see the calendar for this month, press PGM clear key on the remote control   <p>The present month appears</p>	<ul style="list-style-type: none">Select the month you want to view with +/- keys on the remote control  <ul style="list-style-type: none">On screen display disappears a few seconds later
--	--

CAUTION

When malfunctions occur, please press 'RESET' button and restart operations.

Please Note:

- Do not press 'RESET' button in normal condition.
- Pressing 'RESET' button will resume the present time and timer programming to initial mode.
- Please refer to page 23-27 to readjust and timer recording.
- If malfunctions keep occurring after 'RESET' button is pressed, please refer to page 35 and 36 "Trouble shooting guide" before calling service personnel.



Reset Button

Speaking the Language: A Glossary of Terms

AFT	Automatic fine tuning, a circuit that automatically optimizes TV reception.
CATV	Cable television.
Index Search	A feature of this VCR that prints an invisible index number on the tape each time recording starts, thus making it easy to locate a particular program or segment on a tape containing a number of segments recorded over a period of time.
LP	Long Play, an intermediate tape recording/playback speed that combines most of the picture/audio quality obtainable at the standard recording speed with some of the tape economy of super long play (SLP). (T120=4 hours)
MFT	Manual fine tuning, a feature that lets you optimize TV reception.
OSD	On-screen display of information pertinent to VCR recording or playback. Text designed to guide you through a function of the VCR or tell you what's happening appears on the TV screen.
OTR	One-touch recording, a feature that allows you to record the program you're watching by pressing a single button. Each touch of the button causes the recorder to record for a period of 30 minutes.
P/S	Pause/Still-frame control. To stop tape motion temporarily during recording (to eliminate a commercial in a TV program, for example) or to freeze a video frame during playback, use this control.
RF	Radio frequency, the composite audio/video signal supplied to a TV receiver (or other video component) by an antenna or cable system.
Safety Tab	The plastic tab at the rear of a videocassette that prevents accidental erasure of a recording when it is removed. A missing tab may be replaced by plastic or adhesive tape should you desire to re-use a cassette from which the tab has been removed.
SLP	Super long play, the slowest recording speed on this videocassette recorder. Designed to store the maximum amount of program material on a single video cassette, and for recording when you plan to utilize freeze-frame or slow-motion playback effects, its use may result in slight loss of picture quality. (T120=6 hours)
SP	Standard play, the recording speed to use when maximum picture quality is of prime importance (and when total recording time is not). (T120=2 hours)
VISS	VHS Index Search System. A feature of this VCR that automatically records an index each time recording begins. It helps you locate a particular segment of the tape quickly and easily.

Trouble Shooting Guide

Problem

Check

POWER

The display panel is blank. Although the power is on, the VCR does not operate.

Is the unit plugged into a power outlet?

Is there cassette in the VCR?

If there is excess humidity inside the VCR, it will not function.

VCR OPERATION (RECORD MODE)

Tape does not record.

Is the safety tab on the cassette intact?

Timed recording failed.

Did you set the times correctly?

Did you insert a blank cassette in the machine?

Is the safety tab on the cassette intact?

Is the power indicator (graphic) on?

Picture quality during off-air recording is poor.

Use MFT (manual fine tuning) key. If additional adjustment is necessary, use + and – keys.

VCR OPERATION (PLAYBACK MODE)

Picture quality during playback is poor.

Adjust the Ch/Tracking control

Playback head may be dirty. Use a head-cleaning tape.

Picture does not appear in playback mode.

Are the TV receiver and VCR both adjusted for the same channel (Channel 3 or 4)?

Are the connectors between the TV set and the VCR correct?

Is the VCR indicator lit on the display panel?

Picture shows noise bars in Still mode.

Still mode results are best with recordings made at SLP speed. If recording was made at SP setting, you may notice some noise bars in the picture.

Use tracking keys (+ and –) to adjust tracking.

REMOTE CONTROL

Remote control doesn't work

Do the batteries need replacing?

Make sure that you are within operational range—no more than 30 degrees off axis and no more than 23 feet away from the VCR. Make sure there is no obstruction between the remote control and the VCR.

TIMER

Clock doesn't work

Is the unit receiving power?

If the unit has been without power for some period of time, it will need to be reset.

Problem

Check

GENERAL

Tape won't go in the slot.

Is there another tape already in the VCR?

Are you loading the tape correctly, i.e., with the label side up?

Operation keys don't work.

The REW/REV functions don't work at the very beginning of a tape and the FF/CUE, PLAY and REC functions do not work at the end of a tape.

Emergency indicator is blinking.

Unplug and replug the power cord to clear the signal. If the emergency indicator continues to blink, contact a service technician.

Motor in VCR is operating

Please turn off VCR or eject a cassette in VCR.

SPECIFICATIONS

SYSTEM

Video signal
Channel coverage

VHS

NTSC color
VHF channel 2-13
UHF channel 14-69
CATV channels A1-A5, A8, A-W, W+1-W+84
Channel 3 or 4 (selectable)

VHF output signal

VIDEO

Input: Video line in

Phono-type connector 1.0V (p-p),
75 ohms unbalanced, sync. negative

Output: Video line out

Phono-type connector 1.0V (p-p),
75 ohms unbalanced, sync. negative

Signal to noise ratio

More than 45 dB (SP)

Horizontal resolution

230 lines

AUDIO

Input: Audio line in

Phono-type connector 50K ohms
-10 dBm, unbalanced

Output: Audio line out

Phono-type connector less than 10K ohms
-5 dBm (More than 47K ohms load), unbalanced

Frequency response

100 Hz-10 KHz (SP)

Signal to noise ratio

More than 40 dB

Audio Distortion

Less than 3% (SP)

TAPE TRANSPORT

Tape width

12.65 mm (1/2")

Tape speed

SP : 33.35 mm/sec (1 1/3"/sec)

LP : 22.23 mm/sec (3/5"/sec)

SLP: 11.12 mm/sec (2/5"/sec)

Maximum recording time

480 min, with T-160 tape (SLP)

FF. REW time

Approx 5 min (T-120)

GENERAL

Power requirements

120V, 60Hz AC only

Power consumption

27W

DIMENSIONS

Set size (W×H×D)

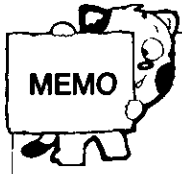
380×85×343 mm (14.9"×3.35"×13.5")

Carton size (W×H×D)

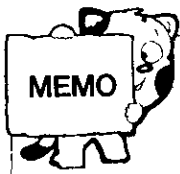
444×160×412 mm (17.5"×16.2"×6.3")

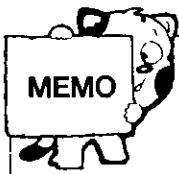
Weight

6 Kg (13.5 lbs)



A large, empty rectangular box with rounded corners, intended for writing a memo. The box is outlined with a thin black border and occupies most of the page.





A large, empty rectangular box with rounded corners, intended for writing a memo. The box is defined by a thin black border and occupies most of the page area.



This instrument is listed by Underwriters Laboratories, Inc. It is designed and manufactured to meet rigid U.L. safety standards against x-radiation, fire, casualty and electrical hazards.

Limited Warranty

Daewoo Electronics Corporation of America warrants each new electronic product manufactured by it to be free from defective material and workmanship and agrees to remedy any such defect or to furnish a new part (at the Company's option) in exchange for any part of any unit of its manufacture which under normal installation, use and service disclosed such defect, provided the unit is delivered by the owner to us or to our authorized distributor from whom purchased or authorized service station, intact, for our examination with all transportation charges prepaid to our factory. To establish and receive warranty service at our factory or authorized service facilities, proof of purchase/dated sales invoice is required.

Written authorization must be obtained before any merchandise is returned to the factory.

This warranty does not extend to any of our electronic products which have been subjected to misuse, neglect, accident, incorrect wiring not our own, improper installation, unauthorized modification, or used in violation of instructions furnished by us, nor units which have been repaired or altered outside of our factory, nor to cases where the serial number thereof has been removed, defaced or changed.

This warranty is in lieu of all warranties expressed or implied and no representative or person is authorized to assume for us any other liability in connection with the sale of our electronic products.

A unit is described as initially defective when the dealer opens the unit and finds that it is inoperative or a customer opening a new unit finds that it is initially defective. This unit may be returned to the factory by the dealer for exchange. Under no circumstances will a customer be permitted to return an initially defective unit directly to the factory.

Model	Parts	Labor
Videocassette Recorder	180 days	180 days

For service information or assistance call toll free: 1-800-782-4922

DAEWOO

Daewoo Electronics Corporation of America

100 Daewoo Place • Carlstadt, NJ 07072