

**ATTACHMENT K – USERS MANUAL**

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# **Video Cassette Recorder User's Guide**



DV-T858N

As an **ENERGY STAR®** Partner, DAEWOO has determined that this product meets the **ENERGY STAR®** guidelines for energy efficiency.



**DAEWOO**

## Safety information

	<b>CAUTION</b> RISK OF ELECTRIC SHOCK DO NOT OPEN	
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		



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



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

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.
CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

### IMPORTANT SAFEGUARDS

In addition to the careful attention devoted to quality standards in the manufacture of your video product, safety is a major factor in the design of every instrument. However, safety is your responsibility too. This sheet lists important information that will help to assure your enjoyment and proper use of the video product and accessory equipment. Please read them carefully before operating and using your video product.

### Installation

- 1** Read and Follow Instructions- All the safety and operating instructions should be read before the video product is operated. Follow all operating instructions.
- 2** Retain Instructions- The safety and operating instructions should be retained for future reference.
- 3** Heed Warnings- Comply with all warnings on the video product and in the operating instructions.
- 4** Polarization- This video product is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug still fails to fit, contact your electrician to replace your obsolete outlet. 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 without blade exposure. If you need an extension cord, use a polarized cord.
- 5** Power Sources- This video 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 video dealer or local power company. For video products intended to operate from battery power, or other sources, refer to the operating instructions.
- 6** Overloading- Do not overload wall outlets of extension cords as this can result in a risk of fire or electric shock. Overloaded AC outlets, extension cords, frayed power cords, damaged or cracked wire insulation, and broken plugs are dangerous. They may result in a shock or fire hazard. Periodically examine the cord, and if its appearance indicates damage or deteriorated insulation,

i.

## Safety information, *continued*

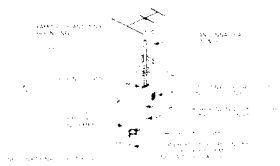
- 7** Power-Cord Protection- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the video product.
- 8** Ventilation- Slots and openings in the case are provided for ventilation to ensure reliable operation of the video product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the video product on a bed, sofa, rug, or other similar surface. This video product should never be placed near or over a radiator or heat register. This video product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the video product manufacturer's instructions have been followed.
- 9** Attachments- Do not use attachments unless recommended by the video product manufacturer as they may cause hazards.
- 10** Water and Moisture- Do not use this video 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. Caution: Maintain electrical safety. Powerline operated equipment or accessories connected to this unit should bear the UL listing mark or CSA certification mark on the accessory itself and should not be modified so as to defeat the safety features. This will help avoid any potential hazard from electrical shock or fire. If in doubt, contact qualified service personnel.
- 11** Accessories- Do not place this video product on an unstable cart, stand, tripod, bracket, or table. The video product may fall, causing serious injury to a child or adult as well as serious damage to the video product. Use this video product only with a cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the video product. Any mounting of the product should follow the manufacturer's instructions and use a mounting accessory recommended by the manufacturer.
- 11A** A video product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the video product and cart combination to overturn.



### Note to CATV system installer

This reminder is provided to call the CATV system installer's attention to Section 820-40 of the NEC which 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.

- 12** Outdoor Antenna Grounding- If an outside antenna or cable system is connected to the video product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984 (Section 54 of Canadian Electrical Code, Part 1) provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See example as shown.



ii.

## Safety information, *continued*

**13** Power Lines- An outside antenna system should not be located in the vicinity of overhead power lines, other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching or approaching such power lines or circuits as contact with them might be fatal. Installing an outdoor antenna can be hazardous and should be left to a professional antenna installer.

### Use

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

**15** Object and Liquid Entry- Never push objects of any kind into this video 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 video product.

**16** Lightning- For added protection for this video product 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 video product due to lightning and power line surges.

### Service

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

**18** Conditions Requiring Service- Unplug this video 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 video product.

C. If the video product has been exposed to rain or water.

D. If the video product does not operate normally by following the operating instructions. Adjust only those controls that are covered by 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 video product to its normal operation.

E. If the video product has been dropped or the cabinet has been damaged.

F. When the video product exhibits a distinct change in performance- this indicates a need for service.

**19** Replacement Parts- When replacement parts are required, have the service technician verify that the replacements he uses have the same safety characteristics as the original parts. Use of replacements specified by the video product manufacturer can prevent fire, electric shock, or other hazards.

**20** Safety Check- Upon completion of any service or repairs to this video product, ask the service technician to perform safety checks recommended by the manufacturer to determine that the video product is in safe operating condition.

**21** Wall or Ceiling Mounting- The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

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

## The Quality Merit of Blue Diamond Like Carbon Coated Drum

*The Aluminium drum surface is severely scratched and worn by friction against the video tape. The damage is more severe in frequent or sudden change of the video mode like picture search (CUE/REV/FF/REW).*

*Simultaneously, the damaged Aluminium drum affects negatively on the quality of the video tape. The video tape is scratched and worn interactively by its adhesion to the coarse and abraded drum surface, thus collects dirt in the long run. The dirt on the tape contaminate the drum surface and the video head after all, which results in poor quality of picture.*

*On the other hand, Blue Diamond Like Carbon Coated Drum has several merits in terms of the picture quality and the life-span of head drum. The characteristic of Blue Diamond Like Carbon Coated Drum coating prevents the adhesion of tape to reduce the damage caused by friction against the video tape. Hence, it always provides to best picture quality with the least dirt even under high humidity condition (70% humidity). The Blue Diamond Like Carbon Coated Drum eventually protects the quality of video tape and prolongs the life-time of head drum. The advanced Blue Diamond Like Carbon Coated Drum technology guarantees distinguished enhancement in quality reliability of VCR deck mechanism, and it enables the remarkable cutdown of A/S cost in relation to the picture quality problem.*

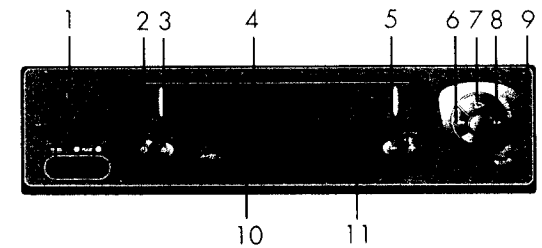
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# Overview of the equipment

This section summarizes the buttons, controls, and terminals that you will use with your VCR.

## Front panel



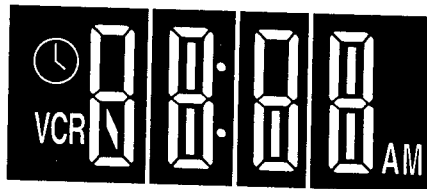
- 1 FRONT AUDIO/VIDEO JACK**  
Attach the VCR's audio & video input at these terminals.
- 2 POWER**  
Press to turn the VCR on or off.
- 3 STOP/EJECT**  
Press to stop tape movement and to eject a video cassette.
- 4 Cassette compartment**  
Insert a video cassette into this slot.
- 5 CH/TRK. +/-**  
Press to change the channel (channels stored in memory only) or to adjust the tracking.
- 6 REW**  
Press to rewind a video cassette.
- 7 PLAY**  
Press to play a video cassette or press during video cassette playback to temporarily pause playback
- 8 FF**  
Press to fast forward a video cassette.

✓ To use the Front AV jack, check the 'Video2' is displayed on the TV screen by pressing the INPUT key, after connecting the Front AV jack to Camcorder or another VCR.  
(Front Display must be displayed 'L2')

## Overview of the equipment, *continued*

- 9 **REC/OTR**  
Press to record the program currently airing on the channel. Press multiple times to process one-touch-recording (OTR) time options.
- 10 **Display panel**  
Displays information to assist you in operating the VCR successfully.
- 11 **Remote Sensor**  
This sensor receives a signal from your remote control. Do not block sensor view from remote control.

Front panel display

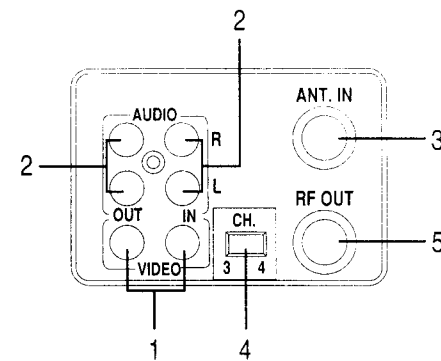


<b>On/OFF</b>	Turned on/off	<b>SLOW</b>	Slow Motion
<b>PLAY</b>	Playback	<b>REC</b>	Record
<b>FF</b>	Fast Forward	<b>PAUS</b>	Pause
<b>SCH</b>	Forward Search	<b>STOP</b>	Stop
<b>REW</b>	Rewind	<b>SP/EP</b>	Tape Speed
<b>SCH-</b>	Reverse Search	<b>EJCT</b>	Eject
<b>HIFI</b>	Hi-Fi	<b>REC</b>	Timer Recording
<b>Ⓞ R0:30, R1:00</b>	OTR (One Touch Recording)		

\*When the lighted indicator is blinking on the display panel, the VCR is in the child lock mode.

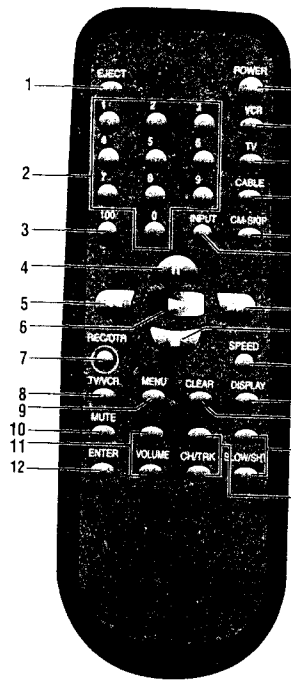
## Overview of the equipment, *continued*

Back panel



- 1 **VIDEO IN/OUT**  
Attach the VCR's video input/output at these terminals.
- 2 **AUDIO IN/OUT**  
Attach the VCR's audio input/output at these terminals.
- 3 **Antenna terminal**  
Attach an antenna or cable system at this terminal.
- 4 **CH. 3-4**  
Set this switch to the appropriate channel (channel 3 or channel 4) for VCR output at your location.
- 5 **RF OUT**  
Use this terminal to connect to a VHF/UHF antenna or to your television RF input.

## Overview of the equipment, *continued*



### Remote control

- 1 EJECT**  
Press to eject the video tape from the compartment.
- 2 0-9**  
Press to select channels or to make certain selection when using the menu system.
- 3 100**  
Press in combination with the 0-9 buttons to select channels greater than 100.
- 4 P/S**  
Press to pause video tape playback for temporarily still picture. Each press of the button advances the picture one frame.
- 5 REW**  
Press to rewind a video cassette.
- 6 PLAY**  
Press to play a video cassette.
- 7 REC/OTR**  
Press once to record; press multiple times to display one-touch-recording (OTR) options.
- 8 TV/VCR**  
Press to select the TV or VCR tuner.
- 9 MENU**  
Press to display the main menu.
- 10 MUTE**  
Turns the TV sound on or off.
- 11 VOLUME ▲/▼**  
Raises and lowers sound
- 12 ENTER**  
Select a channel by pressing two numbers and then press this button to complete the channel selection. This is only for some TV brand.
- 13 POWER**  
Press to turn your VCR on or off.
- 14 VCR**  
Sets remote to control the VCR.
- 15 TV**  
Sets remote to control a compatible TV.
- 16 CABLE**  
Sets remote to control a CABLE BOX.
- 17 CM SKIP**  
Press during playback mode to skip commercials or program segments.
- 18 INPUT**  
Press to select between the VCR tuner or the Audio/Video Input jacks. (auxiliary).
- 19 FF**  
Press during stop mode to quickly advance video tape.
- 20 STOP**  
Press to stop tape movement.
- 21 SPEED**  
Press to select tape recording speed (SP, or EP)
- 22 DISPLAY**  
Press to display the tape counter, clock and status mode on the TV screen.
- 23 CLEAR**  
Press to delete previous selections.
- 24 SLOW/SHT ▲/▼**  
Allows you to control speeds variously during playback.
- 25 CH/TRK ▲/▼**  
Press to change the channel (channels stored in memory only) or to adjust the tracking during playback.

- ✓
- Objects between the remote control and VCR will block the path of the remote control beam.
- Dark walls, direct sunshine or very bright light will reduce the remote sensor's sensitivity.
- The remote control will not work correctly if you press several buttons at the same time.

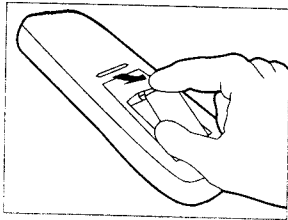
## Overview of the equipment, *continued*

- 14 VCR**  
Sets remote to control the VCR.
- 15 TV**  
Sets remote to control a compatible TV.
- 16 CABLE**  
Sets remote to control a CABLE BOX.
- 17 CM SKIP**  
Press during playback mode to skip commercials or program segments.
- 18 INPUT**  
Press to select between the VCR tuner or the Audio/Video Input jacks. (auxiliary).
- 19 FF**  
Press during stop mode to quickly advance video tape.
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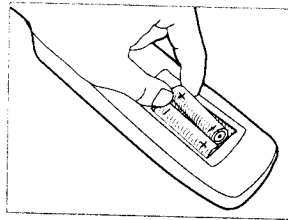
## Overview of the equipment, *continued*

### Installing the remote control batteries

- 1 Open the battery compartment on the back of the remote control.



- 2 Install AAA size batteries as shown. Make sure the "+" and "-" terminals are oriented correctly.



- 3 Replace the cover.

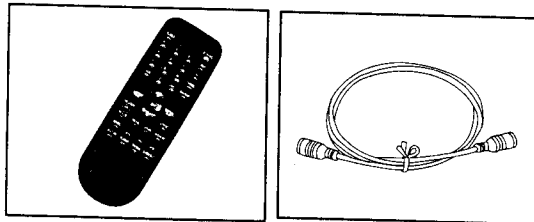
### Using the remote control

Hold the remote control within an angle range of about 30° from either side of the remote sensor. The remote control range is about 23 feet (7m) from the VCR.

Point the front of the remote control directly at the front of the VCR.

### Accessories

Carefully remove the VCR from the carton. Check that the VCR has not been damaged. The following accessories are included.

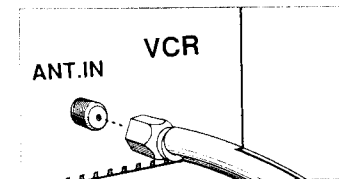


## Connecting your VCR

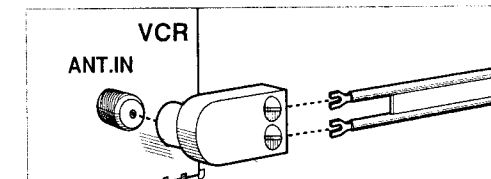
You must connect your VCR to an external antenna or cable system. Next you will connect the VCR to the television. Follow the directions below to make these connections. You will normally only make one of the connections shown below, not all of them.

### Connecting an antenna to the VCR

- If your antenna ends in a single coaxial lead, press or screw the cable onto the ANT. IN terminal on the back of your VCR.



- If your antenna ends in a pair of 300 ohm twin leads, use a 300-ohm/75-ohm adapter (Not Supplied). Place the leads underneath the screws on the adapter, tighten the screws, then press the adapter onto the VCR ANT. IN terminal.



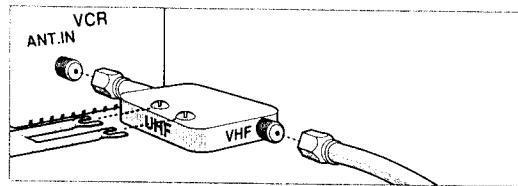
### Antennas with two sets of leads

You may have two sets of leads from your antenna system.

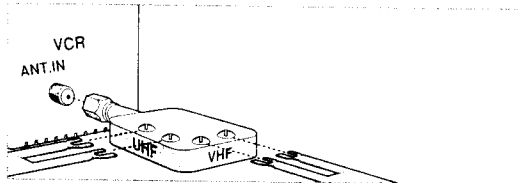
- If your antenna system has both a coaxial lead and twin 300-ohm leads, purchase a combiner (available at electronics stores). Press or screw the coaxial lead onto the combiner; place the twin leads underneath the screws on the combiner and tighten the screws. Press the cable from the combiner onto the ANT. IN terminal on the back of your VCR.



## Connecting your VCR, *continued*

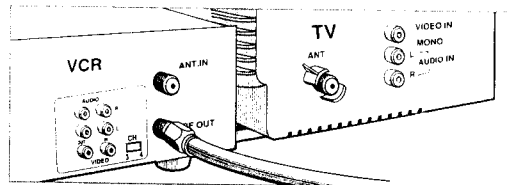


- If your antenna system has two sets of twin 300-ohm leads, purchase a combiner (available at electronics stores). Place one set of twin leads underneath the screws on the combiner and tighten the screws. Do the same with the other set of twin leads. Press the cable from the combiner onto the ANT. IN terminal on the back of your VCR.

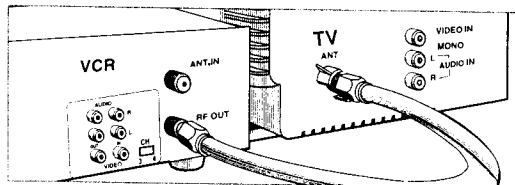


### Connecting your VCR to your TV

- 1 Connect one end of a coaxial cable to the RF OUT terminal on the back of the VCR.

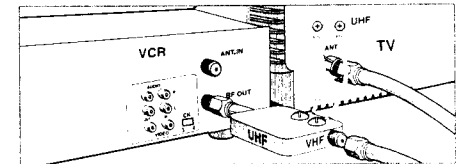


- 2 Connect the other end of the coaxial cable to the ANT. IN terminal on the back of the TV.

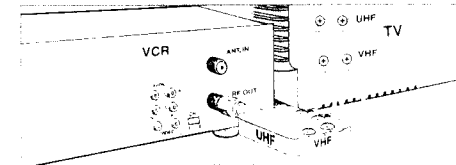


## Connecting your VCR, *continued*

- If you have a coaxial terminal for VHF signals and twin lead terminals for UHF signals, you need an adapter (Not supplied) as shown below:



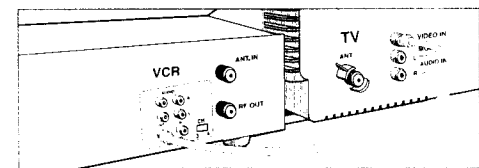
- If you have twin lead terminals for all signals, you need an adapter (Not supplied) like this:



If your TV does not have Audio/Video inputs, you have finished connecting your VCR to your TV. If your TV does have Audio/Video inputs, you may want to follow the section below.

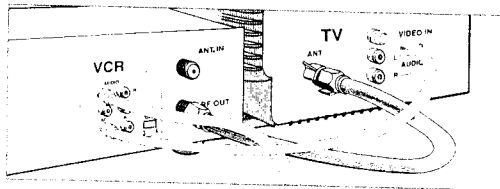
### Connecting to a TV with Audio/Video inputs

- 1 Connect a video cable to the VIDEO OUT terminal on the back of the VCR.
- 2 Connect the other end of the video cable to the VIDEO IN terminal on the TV.

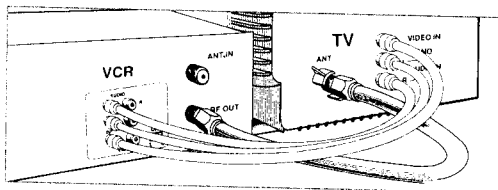


## Connecting your VCR, *continued*

- 3 Connect a pair of audio cables to the AUDIO OUT terminal on the back of the VCR. If you have a mono (non-stereo) TV, connect only the white (left) terminal.



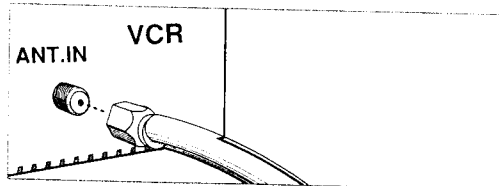
- 4 Connect the other end of the audio cables to the AUDIO IN terminals on the TV. If you have a mono (non-stereo) TV, connect only the white (left) terminal.



### Connecting a cable system

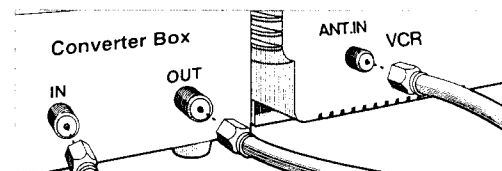
If your cable set-up is not described below, please contact your cable company for more information.

- If your cable system does not require the use of a cable box, simply press or screw the incoming cable onto the ANT. IN terminal on the back of your VCR.



## Connecting your VCR, *continued*

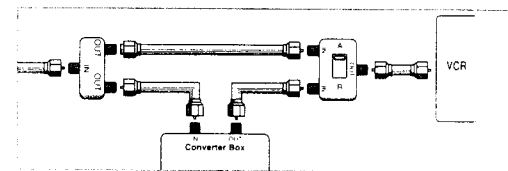
- If your cable system requires you to use a converter box for all channels, connect the incoming cable to the IN terminal on the converter box. Connect another cable between the OUT terminal on the converter box and the ANT. IN terminal on the VCR. Keep your VCR tuned to channel 3 or 4 and change channels using the converter box.



- If your cable system only requires you to use a converter box for some channels (i.e., pay-TV channels), follow these steps: Find the primary incoming coaxial cable. Plug this cable into a splitter (available at your local electronics store.) Connect one coaxial cable between one OUT terminal on the splitter and the IN terminal on the converter box.

Connect another coaxial cable between the other OUT terminal on the splitter and the A-IN terminal on an A/B switch (available at your local electronics store.) Connect a third coaxial cable between the OUT terminal on the converter box and the B-IN terminal on the A/B switch.

Connect a coaxial cable between the OUT terminal on the A/B switch and the ANT. IN on your VCR.



When the A/B switch is in the B position, use the converter box to change channels; when the A/B switch is in the A position, use the VCR to change channels.

## Setting up your VCR

Once you have connected your VCR and put batteries in the remote control, you are ready to use the VCR. Before you start, however, you must be certain to do the following:

- Turn on the television.
- Tune the television to channel 3 or 4 (whichever channel you selected when connecting the VCR).

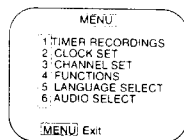
### Turning the VCR on

- 1 Press POWER on the remote control. You can also press POWER on the VCR's front panel.
- 2 Set the VCR to VCR mode by pressing TV/VCR on the remote control if the VCR indication is not lit.

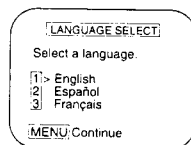
### Changing the on-screen menu language

You may select the language in which you would like the VCR's menu to be displayed: English, Spanish, or French.

- 1 Press MENU to display the main menu.



- 2 Press 5 to select Language.



- 3 Press 1 to select English, 2 to select Español or 3 to select Français.
- 4 Press MENU once to return the main menu, which will be displayed in the language you selected. Press MENU again to exit the menu system and return to normal viewing.

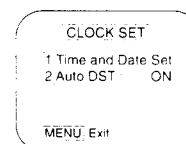
## Setting up your VCR, continued

### Setting the clock

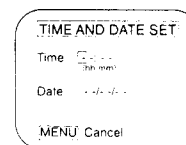
The clock displays the current time and is used for timer recording. Therefore, it is important to set the time and date accurately.

If you are setting the clock for the first time, or if a power failure has erased the clock settings, the clock will display ---:--.

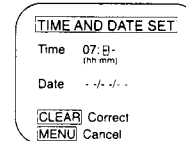
- 1 Press MENU to display the menu.
- 2 Press 2 to select Clock Set



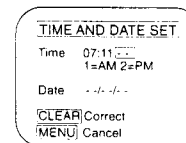
- 3 Press 1 to select Time and Date Set.



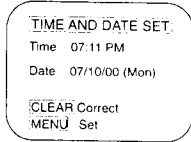
- 4 Use 0-9 to enter the hour and the minutes.



- 5 Press 1 if it is AM; press 2 if it is PM.



- 6 Use 0-9 to enter the month, day, and year. The VCR will automatically add the correct day of the week according to the date that is selected.

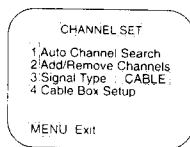


- 7 Press Menu to save the settings and exit from the Time and Date Set menu.
- 8 Press MENU again to exit the menu system and return to normal viewing.

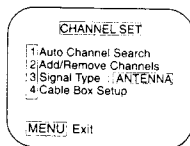
### Selecting cable or antenna viewing

You must set the viewing mode for your VCR, choosing either CABLE (cable system connection) or ANTENNA (antenna connection). To set the viewing mode:

- 1 Press MENU to display the menu.
- 2 Press 3 to select Channel Set.



- 3 Press 3 to toggle the setting between CABLE and ANTENNA. When the desired viewing mode is displayed, press MENU twice to exit.



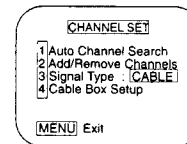
### Programming the channel memory

The VCR's channel memory determines the channels that are visible when you press **▲ CH/TRK ▼**. You can add or remove channels from memory.

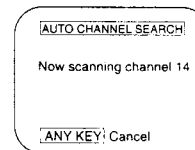
### Setting channels automatically (Auto Channel Search)

Make sure that you use the auto channel search feature during daytime broadcast hours. If you use the auto channel search feature at late night, you may eliminate channels that air only daytime programming.

- 1 Press MENU display the main menu.
- 2 Press 3 to select Channel Set.



- 3 Press 1 to select Auto Channel Search mode and press 3 to detect the channel automatically and the scanning channel number appears. Wait until the channel numbers stop changing (one to two minutes), and one of the memorized channel appears.

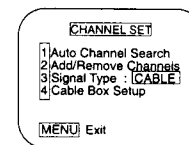


- 4 Press **▲ CH/TRK ▼** to view the memorized channels.

### Removing channels manually

To erase a channel manually,

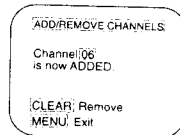
- 1 Press MENU to display the menu.
- 2 Press 3 to select Channel Set.



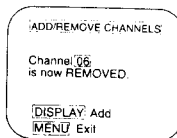
✓  
 • Detect Automatically  
*; A strong cable or antenna signal in your area may cause Auto Detect to mis-detect. If this should happen, select 1 or 2 for the system you have.*

## Setting up your VCR, *continued*

- Press 2 to select Add/Remove Channels.



- Use 0-9 to enter the channel you want to remove.
- Press CLEAR to erase the channel.

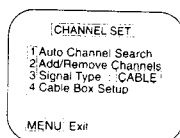


- When you are finished removing channels, press MENU three times to exit from the menus.

### Adding channels to memory

If you have removed a channel from memory, you can easily add it back again. To add channels:

- Use 0-9 to tune to the channel you would like to add.
- Press MENU to display the main menu.
- Press 3 to select Channel Set.



## Setting up your VCR, *continued*

- Press 2 to select Add/Remove Channels.



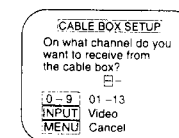
- Press DISPLAY to add the channel.



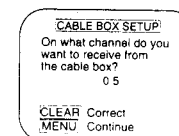
- Press MENU three times to exit from the menus.

### Setting the Cable Box (Cable Box Setup)

- Press MENU to display the menu.
- Press 3 to select Channel Set.
- Press 4 to process Cable Box setup



- Press the channel number (01~13) or input key which matches to the output of the Cable Box to connect between Cable Box and VCR.



- Press CLEAR on the remote to correct setup status.
- Press MENU when you are finished.
- Press MENU to exit the menu system.

✓ When you make a timer recording, the preset channel number will be displayed automatically.

## Using video cassettes

✓ Audio-visual material may include works of copyright which must not be recorded without authorization of the copyright owner.

✓ If you insert a video cassette without a safety tab into the VCR:

• After setting the timer recording program, " " will blink on the display panel in the power off mode and the VCR will automatically eject the cassette.

• In the power on mode, the VCR will playback automatically.

✓ If you insert a video cassette with a safety tab intact into the VCR:

• After setting the timer recording program, the VCR will be stand-by mode in power off mode.

! Do not attempt to pull out the video cassette once the VCR begins to load the video cassette.

• Do not insert fingers or any foreign object beyond the door flaps of the cassette compartment; this could lead to injury or equipment damage.

• Do not attempt to insert a video cassette if the VCR is unplugged.

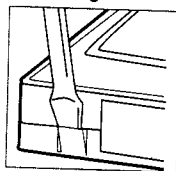
Before you play or record on a video cassette tape, be certain to read this information on the proper care and use of video cassettes.

Only use video cassettes that bear the VHS mark: **VHS**

There are four types of video cassettes: T-60, T-90, T-120, and T-160. The amount you can record on a tape is dependent upon the tape speed at which you record. The table below lists the recording time (hours:minutes) for each tape type according to recording speed.

Tape Type	SP Mode (Standard Play)	EP Mode (Extended Play)
T-60	1:00	3:00
T-90	1:30	4:30
T-120	2:00	6:00
T-160	2:40	8:00

### Protecting video cassettes from accidental erasure



Cassettes have a safety tab to prevent erasure. Break off the safety tab with a screw driver. If you wish to record on a cassette without a safety tab, cover the hole with cellophane tape.

### Inserting video cassettes

Firmly insert the cassette into the cassette compartment with the label up. An inverted cassette cannot be inserted.

### Removing video cassettes

Press STOP/EJECT on the VCR front panel and the VCR will eject the tape. Pull the cassette out gently.

## Controlling a TV/ CABLE BOX

The remote can also be set up to control other manufacturer's brands. To program the remote, use the remote buttons that correspond to your brand.

### Program the remote for a TV

- 1 Turn on the TV.
- 2 Point the VCR remote at the TV.
- 3 Hold the TV button and press in sequence the two digit code for your brand listed below. If the TV turns off, set up is complete.
- 4 Release the buttons.
- 5 Repeat steps 2-4 with the other codes listed if the first code did not work.

NO	Brand	TV Code															
1	ANAM	32	33	38													
2	CRAIG	32															
3	DAEWOO	03	13	26	32	59	67	69	71	77							
4	DAYTRON	03	77														
5	EMERSON	01	03	04	23	32	34	35	77	81	83	84					
6	FISHER	05															
7	FUNAI	23	32														
8	GE	01	03	06	07	26	38	46	47	73	78	84	86	87			
9	HITACHI	01	03	07	08	09	10	20	30	48	77	85					
10	JC PENNEY	01	03	06	07	21	24	42	57	77	86						
11	JVC	26	27	52	79												
12	KENWOOD	01															
13	GOLDSTAR	03	58	61	71	77											
14	LXI	05	12	86	88												
15	MAGNAVOX	01	02	03	40	41	71	77	86	88							
16	MEMOREX	03	12	86	88												
17	MITSUBISHI	01	03	21	23	29	31	80									
18	NEC	01	05	13	16	21	29	38	73								
19	PANASONIC	26	33	38	88												
20	PHILCO	01	02	03	21	32	38	40	41	71	77	88					
21	PHILIPS	01	02	03	27	43	55	77	86	88							
22	PIONEER	01	03	15	20	22	89										
23	PORTLAND	03	77														
24	PROSCAN	77	87														
25	QUASAR	26	38														
26	RADIO SHACK	03	16	32	34	71	77										
27	RCA	01	03	20	21	38	42	47	78	82	85	86	87				
28	SAMSUNG	03	54	57	60	71	74	77	86								
29	SANYO	05	17	18	25	28	36	39	51								
30	SEARS	03	05	12	23	24	51	57	77	86							
31	SHARP	03	16	23	77												
32	SIGNATURE	45															
33	SONY	30	43	50	53	70											
34	SYLVANIA	01	02	03	40	41	71	86	88								
35	TOSHIBA	05	12	24	29	57											
36	WARDS	03	06	07	16	23	40	41	45	47	77	88					
37	ZENITH	45	46	56	59												

# Controlling a TV/CABLE BOX, continued

## Program the remote for a CABLE BOX

1. Turn on the CABLE BOX.
2. Point the VCR remote at the CABLE BOX.
3. Hold the CABLE key and press two number keys to enter code for your brand.  
If the CABLE BOX turned off, set up is complete.
4. Release the keys.
5. Repeat steps 2-4 with other keys if the first ones do not work.

NO	Brand	CABLE BOX Codes															
		Code															
1	ABC	01	03	04	38	41	45	52	89								
2	ANTRONIX	14															
3	ARCHER	05	07	14	24	95											
4	CABLE STAR	26															
5	CENTURION	95															
6	CENTURY	07	95	99													
7	CITIZEN	07	96	97													
8	COLOUR VOICE	62	93														
9	COMBANO	75	77														
10	COMTRONICS	19	30														
11	DIAMOND	23															
12	EAGLE	20	30	39													
13	EAGLE COMTRONICS	93															
14	EASTERN	56	59	63	88												
15	ELECTRICORD	32															
16	EVERAQUEST	91															
17	FUNAI	95															
18	GARRARD	95															
19	GE	69															
20	GEMINI	08	22	25	53	91											
21	GENERAL	89															
22	GENERAL INSTRUMENTS	01	71														
23	GOLDEN CHANNEL	30															
24	HAMLIN	48	49	54	92												
25	HITACHI	01	54														
26	HOSPITALITY	67	73														
27	INSTRUMENT	89															
28	JASCO	95	97														
29	JERROLD	01	02	03	04	08	09	10	66	71	89	90	91				
30	M-NET	36															
31	MACOM	33															
32	MAGNAVOX	10	12	61	75												
33	MECHANICS	98															
34	MEMOREX	51															
35	MOVAPLEX	99															
36	MOVIE TIME	28	32	01	94												
37	NSC	15	28	37	68	94											
38	OAK	16	31	36	52												
39	OMEGA	91															

# Controlling a TV/CABLE BOX, continued

**Helpful Hint** : Notice the difference between the TV and VCR on-screen displays.  
This is one to tell if the remote is set to control the VCR, CABLE BOX or the TV.

## NOTES

- "The remote control is designed to control DAEWOO VCR (not other brand VCRs) and many other brands TV/CABLE BOX listed. However, it will not operate all TV/CABLE BOX made by these manufacturers. If you get no result, your particular brand TV/CABLE BOX cannot be controlled by this remote."
- "For more information of questions please call the DAEWOO Service Department 1-905-415-7290 and press the number "7" to contact Technical Support personnel."

## Operate the TV/CABLE BOX

After you have set up your remote to control your TV, test the TV buttons to see which ones operate your TV.

- 1 Point the remote at the TV and press POWER.
  - 2 If TV does not turn on in step 1, press TV and then POWER.
  - 3 Use the "TV Function buttons" as described on next page.
- Press one of the buttons to set the remote to operate that component.  
The CABLE BOX setting method is same with the TV's.

## Component buttons

**TV**  
Sets remote to control a compatible TV.

**VCR**  
Sets remote to control the VCR.

**CABLE**  
Sets remote to control a CABLE BOX.

## Controlling a TV/CABLE BOX, *continued*

### TV function buttons

Press the TV button to set remote to control a compatible TV. Some buttons may not work with every TV.

#### CHANNEL ▲/▼

Selects next higher or lower channel in the TV's channel memory when remote is set to control a TV.

#### ENTER

Select a channel by pressing two numbers and then press this button to complete the channel selection.

This is only for some TV brand.

#### MUTE

Turns the TV sound on or off.

#### Numbers 0 through 9

Select a channel up to 99 by pressing two numbers.

Select a cable press the other two numbers.

#### POWER

Turns on/off a compatible TV when remote is set to control TV.

#### VOL (Volume) ▲/▼

Raises and lowers sound.

The above function key can operate in the CABLE BOX.

#### NOTES:

- Press VCR to set remote to control the VCR.

## Watching recorded programs

To watch a program recorded on a video cassette tape:

- Turn on the television.
- Set the TV to channel 3 or 4 or to the video input.
- Insert a video cassette.

### Playing a video cassette

If the video cassette has no safety tab (e.g., a rented video cassette), the VCR will automatically play the tape once you insert it. If the VCR does not play the video cassette, press PLAY.

### Searching forward while viewing a video cassette

To search forward on a video cassette, press FF or SLOW/SHT ▲. The video cassette will advance rapidly and display a picture, but no sound. If you repress the FF or SLOW/SHT ▲, the video cassette will advance more rapidly. Press PLAY to return to normal play.

### Searching backward while viewing a video cassette

To search backward on a video cassette, press REW or SLOW/SHT ▼. The video cassette will rewind rapidly and display a picture, but no sound. If you repress the REW or SLOW/SHT ▼, the video cassette will rewind more rapidly. Press PLAY to return to normal play.

### Pausing a video cassette during playback

To temporarily stop playback, press P/S. The picture will freeze and the sound will stop. Press PLAY to return to normal play.

### Stopping video cassette playback

To stop a video cassette, press STOP.

### Fast forwarding the video cassette

To quickly advance the video cassette:

- 1 Press STOP if the VCR is currently playing.
- 2 Press FF. The video cassette will advance at high speed without picture and sound.



### Rewinding the video cassette

To rewind the video cassette:

- 1 Press STOP if the VCR is currently playing.
- 2 Press REW. The video cassette will rewind at high speed without picture and sound.

### Slow motion

You can view a tape during Play-Pause using slow motion.

- 1 Press P/S to freeze the picture.
- 2 Press FF/REW or SLOW/SHT to speed up or down slow motion playback.

The VCR switches automatically from slow motion playback to stop after a few minutes.

### Adjusting the picture

The Digital Auto Tracking System automatically adjusts the tracking to obtain the best possible picture. To manually adjust the tracking during playback, press

**▲ CH/TRK ▼**.

## Recording programs

You have three options for recording TV programs: Manual, Timer, and One touch recording.

### Preparing to record a program (manual or timer)

Before you begin recording:

- Turn on the television.
- Set the TV to channel 3 or 4 or to the video input.
- Insert a video cassette (with a safety tab) into the VCR.
- If the VCR indicator is not lit, press **TV/VCR**.
- If your VCR is connected to:
  - an antenna, set the viewing mode to "ANTENNA."
  - a cable system, set the viewing mode to "CABLE."

### Manual recording

#### Watching and recording the same channel

To watch and record the same channel:

- 1 Be certain to do the steps in the section, "Preparing to record a program," above.
  - 2 Use 0-9 or **▲ CH/TRK ▼** to select the channel number.
  - 3 Press SPEED to select the recording speed.
  - 4 Press REC/OTR to begin recording. The REC indicator lights.
- Press STOP to stop the recording.

#### Watching one channel and recording another

- 1 Perform steps 1-4 in "Watching and recording the same channel," above.
- 2 Press TV/VCR to switch to TV mode.
- 3 Use the television's remote control to select the television channel you want to watch. The VCR will continue to record the program.

✓ See "Selecting cable or antenna viewing," p. 14, for information on setting the viewing mode.

✓ Press P/S if you would like to momentarily stop the recording. Press REC/OTR to resume recording. If you do not press REC within five minutes of pressing P/S, the VCR will automatically release the pause and stop the recording to prevent damage to the tape.

✓ Since the VCR has its own TV tuner, it is not necessary to turn on the TV in order to make a recording. Turning on the TV merely allows confirmation of proper channel settings on your VCR.

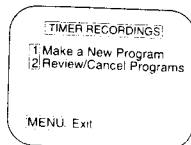
# Recording programs, *continued*

## Timer recording

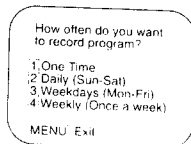
There are four timer modes: One time, Daily, Weekdays, and Weekly

✓ *Timer recording allows you to record up to eight different programs within one year period. Once you have set the timer for timer recording, the VCR will turn on, record the program you selected, and then shut off automatically.*

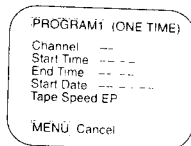
- 1 Be certain to do the steps in the section, "Preparing to record a program," as shown on previous page.
- 2 Make certain the clock is set to the correct time.
- 3 Press MENU to display the menu.
- 4 Press 1 to select Timer Recordings.



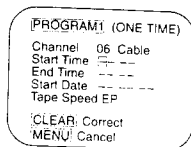
- 5 Press 1 to select Make a New Program.



- 6 Press 1 for One Time; 2 for Daily; 3 for Weekdays, or 4 for Weekly.



- 7 Use 0-9 to enter the channel number to record. While the VCR is in the CABLE mode, if a channel over 100 is desired, press 100's key and then the next 2 digits in order.

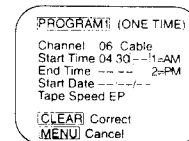


✓ *If the VCR is in cable box setup mode, the preset channel number will be displayed automatically.*

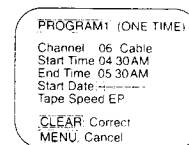
# Recording programs, *continued*

✓ *See page 18 for information, about tape speed. Understanding tape speed options will ensure that you are able to completely record a program without running out of tape and that you are able to record programs with the level of picture quality you desire.*

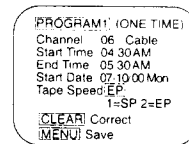
- 8 Use 0-9 to enter the recording start time.



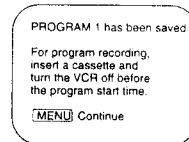
- 9 Use 0-9 to enter the recording end time. AM/PM and the current date/year will be selected automatically.



- 10 Use 0-9 to set the date that the program airs. DAY(MON)/YEAR(00) will be set automatically.



- 11 Press 1 or 2 to select the recording speed and press MENU and the following screen will appear:



✓ *To turn the VCR off after setting up a timer recording program, press POWER on the remote control or POWER on the VCR. The timer recording indicator will light.*

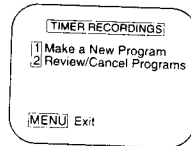
- *To stop a timer recording program in process, press and hold STOP for about five seconds.*
- *When the timer recording indicator appears, the VCR is in standby and cannot be operated. To release the VCR from standby, press POWER.*

- 12 Press MENU three times repeatedly to return to normal viewing and if you want to make a new program, press MENU and restart from step 4 to 11.

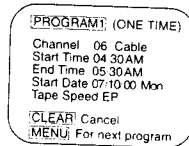
## Reviewing timer programs

If you want to review the timer programs that you set up:

- 1 Press MENU to display the menu.
- 2 Press 1 to select Timer Recordings.



- 3 Press 2 to select Review/Cancel Programs.

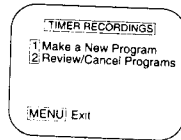


- 4 Press MENU to view additional timer programs.

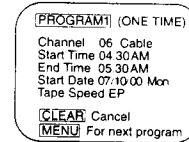
## Cancelling timer programs

To cancel timer recording programs before recording starts :

- 1 Press MENU to display the menu.
- 2 Press 1 to select Timer Recordings.



- 3 Press 2 to select Review/Cancel Programs. Press MENU to cycle the programs.



- 4 When the program contents to be erased is displayed, press CLEAR to cancel it.
- 5 Press MENU repeatedly to return to normal viewing.

## One touch timer recording (OTR)

One touch timer records a program for a preset recording time (30 minutes to 4 hours).

- 1 Be certain to do the tasks in the section, "Preparing to record a program".
- 2 Use 0-9 or ▲CH/TRK▼ to select the channel to record.
- 3 Press REC/OTR to begin recording.
- 4 Continue to press REC/OTR to increase the time length of the recording.

Press REC/OTR	To record
one time	normal (no recording time limit)
two times	30 mins.
three times	1 hour
four times	1 hour 30 mins.
five times	2 hours
six times	3 hours
seven times	4 hours
eight times	normal (no recording time limit)

- To stop the recording in progress, press and hold STOP approximately 5 seconds.

✓ Be certain when using manual or one-touch recording that your recording does not conflict with timer recordings that you set up.

## Using advanced features

✓ The following guidelines will help you decide on the best method for recording programs. Choose:

- Stereo reception for normal recording and to record broadcast stereo television.
- Mono reception if the stereo signal is weak and sound is too "noisy."
- SAP reception to record a second audio program. An example of a SAP is a program that is broadcast in English, but has a Spanish SAP.

✓ You can only record stereo and SAPs if the program is a broadcast in stereo or with a SAP. Consult a television guide for program broadcast information.

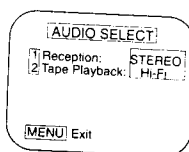
✓ The following guidelines will help you to determine the best audio playback mode. Choose:

- "Hi-Fi" to play back sound recorded on the Hi-Fi track.
- "Linear" to play back the sound recorded on the linear mono track.
- "Mix" to play back the sound recorded on both the Hi-Fi track and the linear track.

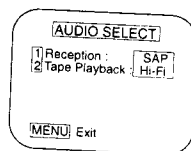
This section describes the advanced features of your VCR.  
**Recording stereo or secondary audio programs (SAP)**

Programs are broadcast in mono or stereo audio, or with a SAP. To record in stereo or a SAP:

- 1 Turn on the TV and VCR.
- 2 Set the TV to channel 3 or 4 or to the video input.
- 3 Set the VCR to VCR mode by pressing TV/VCR.
- 4 Press MENU to display the menu.
- 5 Press 6 to choose Audio Select.



- 6 Press 1 repeatedly to select Stereo, Mono or SAP.



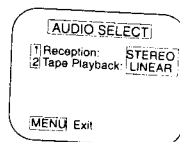
- 7 Record the program in any manner you choose (normal, timer, or one-touch recording).

### Selecting an audio playback option

To select Hi-Fi, Linear, or Mix audio playback options:

To set the audio playback:

- 1 Press MENU to display the menu.
- 2 Press 6 to choose Audio Select.



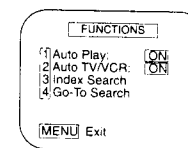
## Using advanced features, continued

- 3 Press 2 repeatedly to select Hi-Fi, Linear, or Mix.
- 4 Press Menu twice to exit the menu system.

### Play the tape automatically

This feature allows the VCR to automatically start playing when you insert a tape with the safety tab removed.

- 1 Press MENU to display the menu.
- 2 Press 4 to choose Functions
- 3 Press 1 to switch between ON and OFF
  - Select ON if you want a tape with its safety tab removed to start playing automatically when the tape is inserted.
  - Select OFF if you do not want a tape with its safety tab removed to start playing automatically.



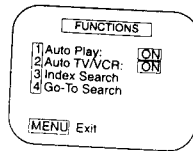
### Switch the VCR to TV or VCR mode automatically

This feature controls whether the TV/VCR switch changes automatically to the VCR mode when the VCR is turned on.

- 1 Press MENU to display the menu.
- 2 Press 4 to choose Functions
- 3 Press 2 to switch between ON and OFF
  - Select ON if you want the VCR to switch to the VCR mode when the VCR is turned on or a cassette is inserted. This only applies if you connect the ANT.IN and RF OUT jacks of your VCR and TV and watch your VCR on channel 3 or 4 of your TV.

## Using advanced features, *continued*

- Select OFF if you want the VCR to remain in the TV mode. This is useful if you watch your VCR on the TV's video input and you don't want your antenna/cable signal interrupted by the VCR.



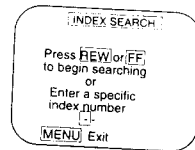
! If two recordings overlap, the index mark for the second program will be erased. Therefore, when you use the index feature to find the second program, the VCR will skip over it.

• If you record multiple programs in one recording session, the VCR will only find the index mark that was placed on the video cassette tape when the recording session began.

### Searching a cassette tape for programs (indexing)

When you record a program, the VCR places an index mark at the start of the recording. To search for an index mark:

- 1 Press MENU to display the menu.
- 2 Press 4 to choose Functions.
- 3 Press 3 to choose Index Search.



- 4 If you want to search through a certain number of index marks, press two number buttons to enter the number of marks you want to search. Press CLEAR on the remote to correct an entry.
- 5 Press REW to search backward or FF to search forward. The VCR will locate your index mark and begin playback. If you did not enter a specific index number, the VCR will locate the next index mark and begin playback. Press STOP to stop index searching.

! Some index marks that may be missed by the VCR :

- A mark too close to your location on the tape.
- The mark at the beginning of a recorded segment of five minutes or less.
- The first index mark on the tape when you start at the beginning of the tape.

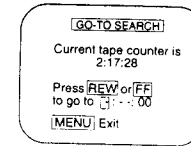
### Searching with the tape counter (go-to search)

You can mark a segment of the video cassette with the tape counter that will help you easily locate the segment later.

- 1 Press MENU to display the menu.

## Using advanced features, *continued*

- 2 Press 4 to choose Functions.
- 3 Press 4 to display Go-To Search.



- 4 The tape counter is displayed on the screen. Input the tape counter you want to go and press REW or FF, the VCR will search for the time counter you want.

### Marking a tape for zero search

- 1 Use PLAY, REW, or FF to reach the point on the tape that you would like to mark as 0:00:00.
- 2 Press DISPLAY to display the tape counter on the screen.
- 3 Press CLEAR to reset the tape counter to 0:00:00.
- 4 You can continue to play the tape or perform other functions with the VCR.

### Child Lock

To disable the usage of the VCR, or to protect your timer recordings, you can lock the VCR so that the buttons on the VCR or remote won't work.

- To lock : Press and hold POWER on the remote for approximately six seconds.
- To release : Press and hold POWER on the remote for approximately six seconds.

## Using advanced features, *continued*

✓  
Use the tape counter to note the current location of playback on the video cassette.

- To reset the tape counter, press CLEAR and the time counter will be reset to 00:00 anywhere on a tape. See "Searching with the tape counter (go-to search)," p.32/33, for more information on this feature.

### CM Skip

This is useful for skipping commercials or program segments.

- Press CM skip once during playback to advance the tape approximately 30 seconds.
- Each press of the CM skip adds an additional 30 seconds up to 5 minutes.

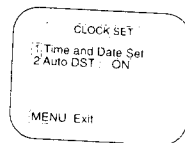
### Display (O.S.D)

Press DISPLAY to display the tape counter, clock and status mode on the TV screen.

And, by one more pressing DISPLAY before disappearing the OSD from the screen, only the tape counter will remain on the screen.

### Daylight-Saving Time

- 1 Press MENU to display the menu.
- 2 Press 2 to choose Clock Set.



- 3 Press 2 in the Clock Set mode to toggle the setting between AUTO DST ON and OFF.
- Select ON if you want the VCR's clock to automatically adjust for daylight-saving time.
  - Select OFF if you do not want the VCR's clock to adjust for daylight-saving time.

✓  
*SPRING Forward ; Fall Backward*

In the Spring, daylight-saving time begins on the first Sunday in April. Because the clock automatically changes from 2:00 AM to 3:00 AM (forward one hour), remember to include the extra hour for timer recording falling within this time frame.

In the Autumn, daylight-saving time ends on the last Sunday in October.

The VCR clock automatically changes from 2:00 AM to 1:00 AM (back one hour). Therefore, it can affect your recording length.

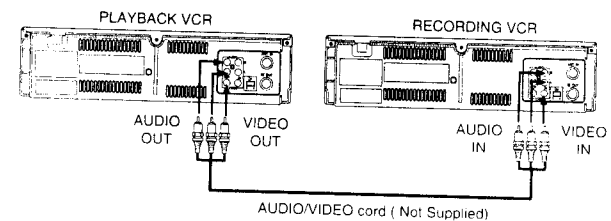
## Using advanced features, *continued*

### Duplicating video cassettes tape with another VCR

You can duplicate a video cassette tape if you connect a second VCR to this VCR.

#### Connecting another VCR to this VCR

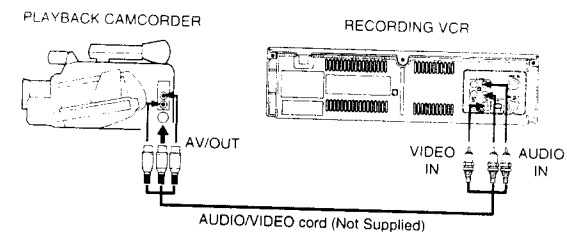
Make all connections before turning on the power. Be sure to press INPUT on the recording VCR.



### Connecting a Camcorder to this VCR

For duplicating a previously recorded tape from a camcorder, follow the camcorder manufacturer's instructions.

A type of dubbing hookup is shown below. Be sure to press INPUT on the recording VCR.



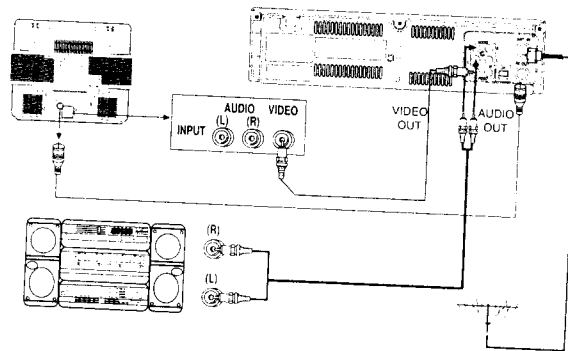
## Using advanced features, *continued*

### Setting up the VCRs for video cassette duplication

To duplicate a video cassette:

- It is recommended that the tape speed be set to the SP mode on the recording VCR for best results.
  - Unauthorized recording of copyrighted television programs, films, video tapes and other materials may infringe on the rights of copyright owners and be contrary to copyright laws.
- 1 Load a blank video cassette tape with the safety tab intact into the recording VCR. Press INPUT on the recording VCR.
  - 2 Load a previously recorded cassette into the playback VCR or camcorder.
  - 3 Press REC/OTR on the recording VCR, then press P/S.
  - 4 Press PLAY on the playback VCR or camcorder, then press P/S.
  - 5 Press PLAY on the playback VCR and REC/OTR on the recording VCR simultaneously to begin the duplicating process.

### Connecting a Audio system to this VCR



## Glossary

AFT: Automatic fine tuning, a circuit that automatically adjusts TV reception to optimum condition.

CABLE: Cable television.

EP: Extended play, the slowest recording speed. Designed to store the maximum amount of program material on a single video cassette. There is some degradation in picture/audio quality.

Index Search: 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.

LP: Long Play, an intermediate tape recording speed that combines most of the picture/audio quality obtainable at the standard recording speed with some of the tape economy of Extended Play (EP).

OSD: On-screen display of information pertinent to the features of the VCR.

OTR: One-touch recording, a feature that allows you to record the program you're watching by pressing the REC key. Each press of the key increases the recording time by 30 minutes, up to four hours.

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 back of a video tape cassette which, when removed, prevents accidental erasure of a recording.

SP: Standard play, the recording speed to use when the best picture quality is of prime importance (and when total recording time is not).

## Troubleshooting

Your Daewoo VCR is designed to give you trouble-free performance for many years. If you have a problem with your VCR, try the solutions listed below.

If the suggestions listed below do not solve your problem, contact your Daewoo dealer or an authorized Daewoo service center. You can also call Daewoo directly at 1-905-415-7290.

### **The front panel display is blank.**

Make sure the VCR is plugged in.

### **The power is on but the VCR does not operate.**

Make sure there is a video cassette inserted in the VCR.

### **A timer recording failed to record on the video cassette.**

- Make sure the VCR is plugged in.
- Make sure there is a video cassette in the VCR.
- Make sure the video cassette's safety tab is in place.
- Verify that you set the timer correctly.

### **Picture quality during playback is poor.**

- Adjust the picture quality by pressing **▲ CH/TRK ▼**.
- The head may be dirty. Use a head-cleaning tape.

### **Picture does not appear when you attempt to play a video cassette.**

- Verify that the VCR indicator is lit on the front display.
- Make sure the TV and VCR are set to the same channel (channel 3, 4 or video input).
- Verify the connections between the VCR and the TV.

### **Remote control doesn't work.**

- Make sure the batteries are fresh.
- Make sure that you are using the remote control within the operational range—no more than 30° either

## Troubleshooting, *continued*

side of the remote sensor centre and no more than 23 feet from the VCR.

- Make sure there is no obstruction between the remote control and the VCR.

### **Timer clock does not work.**

- Make sure the VCR is plugged in and receiving power.
- If the unit has been without power for some period of time, you must reset the clock and all your timer programs.

### **Video cassette won't go into the cassette compartment.**

- Make sure there is not a tape already loaded into the cassette compartment.
- Insert the video cassette with the label side up.

### **VCR and remote control buttons don't work.**

The REW button does not work at the very beginning of a video cassette. The FF, PLAY and REC/OTR buttons do not work at the end of a video cassette.

### **Emergency indicator 'Err' is appearing.**

Check that it is child lock mode or not and then press POWER to remove the indicator. If the emergency indicator continues to appear, contact a service technician.

### **The VCR buzzes when it is on.**

The VCR may be in standby mode and the motor is running. This sound is normal.

### **Video cassette recorder doesn't rewind all the way to the end.**

To avoid video cassette tape damage, the VCR stops rewinding near the end of the tape and then slowly finishes rewinding. Do not prematurely eject the tape.



## Specifications

<b>System</b>	<b>VHS</b>
Video signal	NTSC color
Channel coverage	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	
<b>Video</b>	
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 43dB (SP)
Horizontal resolution	220 lines
<b>Audio</b>	
Input: Audio line in	Phono-type connector more than 47K ohms -8.8 dBm, unbalanced
Output: Audio line out	Phono-type connector less than 1.5K ohms -5.8 dBm, unbalanced
Frequency response	Normal: 100Hz-10KHz (SP); Hi-Fi: 20Hz-20KHz
Signal to noise ratio	Normal: more than 42 dB; Hi-Fi: more than 68 dB
Audio distortion	Normal: less than 4% (SP); Hi-Fi: less than 0.7%
<b>Tape transport</b>	
Tape width	12.65 mm (1/2")
Tape speed	SP: 33.35 mm/sec EP: 11.12 mm/sec
Maximum recording time	480 min, with T-160 tape (EP)
Rewind/fast forward time	Approx 3 min (T-120 tape)
<b>General</b>	
Power requirements	AC 120V 60 Hz only
Power consumption	17 W (under 4W in stand by mode)
<b>Dimensions</b>	
Set size (W x H x D)	14.17 x 3.58 x 9.37 inches
Carton size (W x H x D)	18.07 x 7.68 x 12.99 inches
Weight (Net)	6.39 lbs
(Gross)	8.82 lbs

## VCR Product Warranty

Daewoo Electronics Canada Inc. (also known as DECI) warrants this product to be free from defects in material and workmanship and agrees to remedy any such defect. This warranty covers 1 years labour and 1 years parts from the date of original purchase.

This warranty applies only to product purchased from an authorized DECI dealer and used within the boundaries of Canada. This warranty does not apply to product that has been improperly installed, subjected to usage for which the product was not designed, misused or abused, damaged during transportation or which has been altered or repaired in any way that affects the reliability or detracts from its performance.

### How to obtain Warranty Service

Warranty service can only be provided by an authorized DECI Servicenter. For the closest authorized Servicenter to you, please contact your dealer. In order to receive warranty service you must provide the authorized Servicenter with a copy of proof of purchase, signifying the date of purchase and the name of the Dealer from whom you purchased the product.

### Statutory Warranties

The purchaser may have rights under existing provincial or federal laws and where any terms of this warranty are prohibited by such laws, they are deemed nul and void, but the remainder of the warranty shall remain in effect.

If you require further assistance, you may contact us directly at :

### Daewoo Electronics Canada Inc.

170 Alden Road, Markham, Ontario

L3R 4C1

TEL : (905) 415 - 7290

