AUDIOVOX®

Video Cassette Recorder
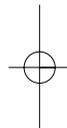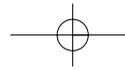
User's Guide

AVR-1040

Safety information

<table>
<tr><td>⚠ !</td><td>CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN</td><td>⚠ ⚡</td></tr>
</table>

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 harzard. Periodically examine the cord, and if its appearance indicates damage or deteriorated insulation,
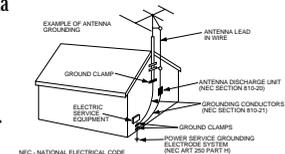
Safety information, *continued*

have it replaced by your service technician

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 instruction's 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, excessiveforce, 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.

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 vido 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 Ceilling Mounting- The product should be mounted to a wall or ceilling 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.

Contents

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

Front panel

1 POWER
Press to turn the VCR on or off.

2 STOP/EJECT
Press to stop tape movement and to eject a video cassette.

3 Cassette compartment
Insert a video cassette into this slot.

4 CHANNEL/TRACKING
Press to change the channel (channels stored in memory only) or to adjust the tracking.

5 REW
Press to rewind a video cassette.

6 PLAY
Press to play a video cassette or press during video cassette playback to temporarily pause playback

7 FF
Press to fast forward a video cassette.

8 RECORD/OTR
Press to record the program currently airing on the channel. Press multiple times to process one-.touch-recording (OTR) time options.

9 Remote Sensor
This sensor receives a signal from your remote control. Do not block sensor view from remote control.

10 Display panel
Displays information to assist you in operating the VCR successfully.

Front panel display

1 POWER
Indicates that the VCR Power is on.

2 RECORD
Indicates that the VCR is recording a program.

3 VCR
Indicates that the VCR is in VCR mode when lit. When not lit, the VCR is in TV mode.

4 TIMER
Indicates that a timer recording has been programmed.

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

1   **POWER**
    Press to turn your VCR on or off.

2   **INPUT**
    Press to select between the VCR tuner and the
    Audio/Video Input jacks (auxiliary).

3   **0-9**
    Press to select channels or to make certain
    selections when using the menu system.

4   **PLAY**

    Press to play a video cassette.

5   **REW**
    Press to rewind a video cassette.

6   **STOP**
    Press to stop tape movement.

7   **REC/OTR**
    Press to record the program currently airing
    on the channel. Press multiple times to process
    one-touch-recording (OTR) time options.

8   **SPEED**
    Press to select tape recording speed (SP, or EP)

9   **TV/VCR**
    Press to select the TV or VCR tuner.

10 **CM SKIP**

    Press during playback mode to skip
    commercials or program segments.

11 **MENU**
    Press to display the main menu.

12 **EJECT**

    Press to eject a video cassette from the
    compartment.

Installing the remote control batteries

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

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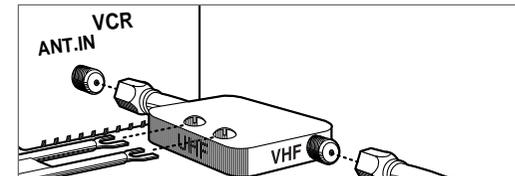
- **If your antenna system has two sets of twin 300-ohm leads,** purchase a combiner (available at electronics stores). Place one set of twin leads underneath the screws on the combiner and tighten the screws. Do the same with the other set of twin leads. Press the cable from the combiner onto the ANT.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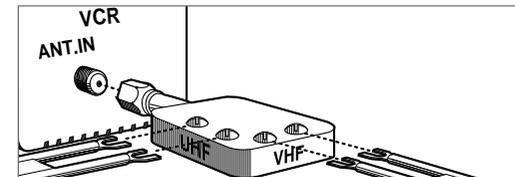
Connecting your VCR to your TV

1 Connect one end of a coaxial cable to the RF OUT terminal on the back of the VCR.
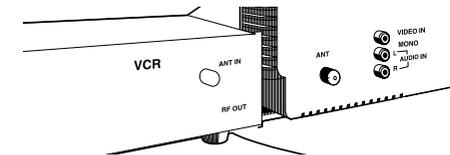
2 Connect the other end of the coaxial cable to the ANT. IN terminal on the back of the TV.

3 Connect a audio cable to the AUDIO OUT terminal on the back of the VCR.

4 Connect the other end of the audio cable to the AUDIO IN terminals on the TV. If you have a stereo TV, connect only the white (left) terminal.
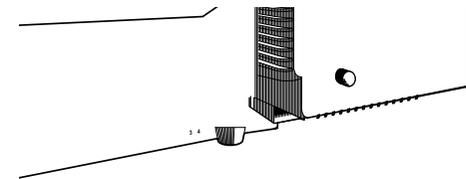
Connecting a cable system

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.

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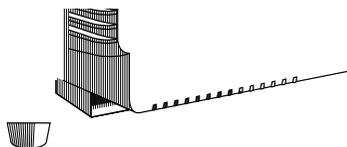
• **If your cable system only requires you to use a converter box for some channels** (i.e., pay-TV channels), follow these steps: Find the primary incoming coaxial cable. Plug this cable into a splitter (available at your local electronics store.) Connect one coaxial cable between one OUT terminal on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

```
┌─────────────────────────┐
│        MENU             │
│ 1 TIMER RECORDINGS      │
│ 2 CLOCK SET             │
│ 3 CHANNEL SET           │
│ 4 FUNCTIONS             │
│ 5 LANGUAGE SELECT       │
│                         │
│  MENU  Exit             │
└─────────────────────────┘
```
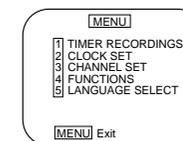
2 Press 5 to select Language.

```
┌─────────────────────────┐
│    LANGUAGE SELECT      │
│  Select a language.     │
│ 1 > English             │
│ 2   Español             │
│ 3   Français            │
│  MENU Continue          │
└─────────────────────────┘
```

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.
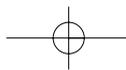
Setting up your VCR, *continued*

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

```
┌─── CLOCK SET ───┐
│                  │
│ 1 Time and Date Set │
│ 2 Auto DST : ON  │
│                  │
│ MENU  Exit       │
└──────────────────┘
```

3 Press 1 to select Time and Date Set.

```
┌─ TIME AND DATE SET ─┐
│                      │
│ Time   ☐ -:- -       │
│         (hh:mm)      │
│ Date    - -/- -/- -  │
│                      │
│ MENU  Cancel         │
└──────────────────────┘
```

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

```
┌─ TIME AND DATE SET ─┐
│                      │
│ Time   07: ☐ -       │
│         (hh:mm)      │
│ Date    - -/- -/- -  │
│ CLEAR  Correct       │
│ MENU   Cancel        │
└──────────────────────┘
```

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

```
┌─ TIME AND DATE SET ─┐
│                      │
│ Time   07:11 -- -    │
│         1=AM 2=PM    │
│ Date    - -/- -/- -  │
│ CLEAR  Correct       │
│ MENU   Cancel        │
└──────────────────────┘
```

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

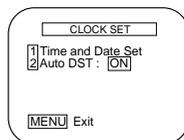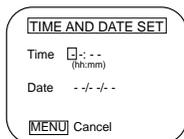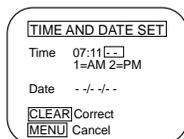# Setting up your VCR, *continued*

```
┌─ TIME AND DATE SET ─┐
│                      │
│ Time   07:11 PM      │
│                      │
│ Date   07/10/00 (Mon)│
│                      │
│ CLEAR  Correct       │
│ MENU   Set           │
└──────────────────────┘
```

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.

```
┌─── CHANNEL SET ───┐
│                    │
│ 1 Auto Channel Search │
│ 2 Add/Remove Channels │
│ 3 Signal Type : CABLE │
│ 4 Cable Box Setup  │
│                    │
│ MENU  Exit         │
└────────────────────┘
```
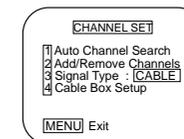
3 Press 3 to toggle the setting between CABLE and ANTENNA. When the desired viewing mode is displayed, press MENU twice to exit.

```
┌─── CHANNEL SET ───┐
│                    │
│ 1 Auto Channel Search │
│ 2 Add/Remove Channels │
│ 3 Signal Type : CABLE │
│ 4 Cable Box Setup  │
│                    │
│ MENU  Exit         │
└────────────────────┘
```
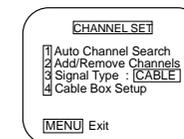
Programming the channel memory
The VCR's channel memory determines the channels that are visible when you press –CH/TRK+. You can add or remove channels from memory.

Setting up your VCR, *continued*

✔

• *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 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.
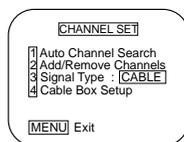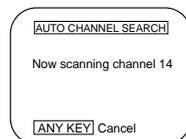
> CHANNEL SET
> 1 Auto Channel Search
> 2 Add/Remove Channels
> 3 Signal Type : CABLE
> 4 Cable Box Setup
>
> MENU Exit

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.

> AUTO CHANNEL SEARCH
>
> Now scanning channel 14
>
> ANY KEY Cancel

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.

> CHANNEL SET
> 1 Auto Channel Search
> 2 Add/Remove Channels
> 3 Signal Type : CABLE
> 4 Cable Box Setup
>
> MENU Exit
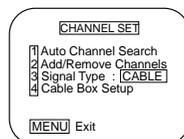
Setting up your VCR, *continued*

3 Press 2 to select Add/Remove Channels.

> ADD/REMOVE CHANNELS
>
> Channel 06
> is now ADDED.
>
> CLEAR Remove
> MENU Exit
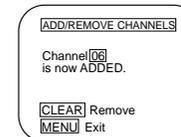
4 Use 0-9 to enter the channel you want to remove.
5 Press CLEAR to erase the channel.

> ADD/REMOVE CHANNELS
>
> Channel 06
> is now REMOVED.
>
> DISPLAY Add
> MENU Exit

6 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:

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

> CHANNEL SET
> 1 Auto Channel Search
> 2 Add/Remove Channels
> 3 Signal Type : CABLE
> 4 Cable Box Setup
>
> MENU Exit
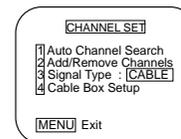
Setting up your VCR, *continued*

4   Press 2 to select Add/Remove Channels.

```
ADD/REMOVE CHANNELS

Channel 06
is now REMOVED.

DISPLAY  Add
MENU  Exit
```

5   Press DISPLAY to add the channel.

```
ADD/REMOVE CHANNELS

Channel 06
is now ADDED.

CLEAR  Remove
MENU  Exit
```

6   Press MENU three times to exit from the menus.

Setting the Cable Box (Cable Box Setup)

1   Press MENU to display the menu.

2   Press 3 to select Channel Set.

3   Press 4 to process Cable Box setup

```
CABLE BOX SETUP
On what channel do you
want to receive from
the cable box?
         ⊟–
0 – 9   01 –13
INPUT   Video
MENU   Cancel
```

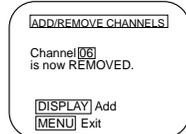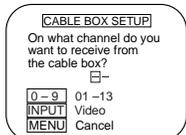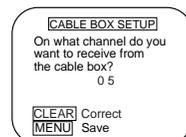**4**   Press the channel number (01~13) or input key which matches to the output of the Cable Box to connect between Cable Box and VCR.

```
CABLE BOX SETUP
On what channel do you
want to receive from
the cable box?
         0 5

CLEAR  Correct
MENU   Save
```

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

5   Press CLEAR on the remote to correct setup status.

6   Press MENU when you are finished.

7   Press MENU to exit the menu system.

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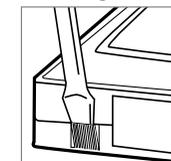
Cassettes have a safety tab to prevent erasure. Break off the safety tab with a screw driver. If you wish to record on a cassette without a safety tab, cover the hole with cellophane tape.

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.
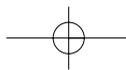
Watching recorded programs

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. The video cassette will advance rapidly and display a picture, but no sound. If you repress the FF, 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. The video cassette will rewind rapidly and display a picture, but no sound. If you repress the REW, 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.

✔ *In the searching forward, searching backward and Pause mode, the picture noise may be appeared on the screen.*

Watching recorded programs, *continued*

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 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+**.

✔ *In the slow motion, the picture noise may be appeared on the screen.*

Recording programs

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

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."

✔ *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.*

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.

✔ *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.*

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.
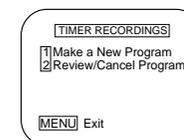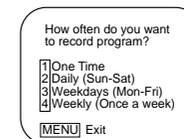
Recording programs, *continued*

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.

```
TIMER RECORDINGS
1 Make a New Program
2 Review/Cancel Programs


MENU  Exit
```

5 Press 1 to select Make a New Program.

```
How often do you want
to record program?

1 One Time
2 Daily (Sun-Sat)
3 Weekdays (Mon-Fri)
4 Weekly (Once a week)
MENU  Exit
```

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

```
PROGRAM1  (ONE TIME)

Channel      ⊟–
Start Time   ––:––
End Time     ––:––
Start Date   ––/––/––
Tape Speed EP
MENU  Cancel
```

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

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.

```
PROGRAM1  (ONE TIME)

Channel      06  Cable
Start Time   ⊟–:––
End Time     ––:––
Start Date   ––/––/––
Tape Speed EP
CLEAR  Correct
MENU  Cancel
```

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.

PROGRAM1 (ONE TIME)
Channel   06 Cable
Start Time 04:30AM
End Time 05:30AM
Start Date □:--/--/--
Tape Speed EP
CLEAR Correct
MENU Cancel

10 Use 0-9 to set the date that the program airs.

DAY(Sat)/Year(00) will be set automatically.

PROGRAM1 (ONE TIME)
Channel   06 Cable
Start Time 04:30AM
End Time 05:30AM
Start Date 07/10/00 Mon
Tape Speed EP
      1=SP 2=EP
CLEAR Correct
MENU Save

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

PROGRAM 1 has been saved

For program recording,
insert a cassette and
turn the VCR off before
the program start time.

MENU Continue

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.

TIMER RECORDINGS
1 Make a New Program
2 Review/Cancel Programs

MENU Exit

3 Press 2 to select Review/Cancel Programs.

PROGRAM1 (ONE TIME)
Channel   06 Cable
Start Time 04:30AM
End Time 05:30AM
Start Date 07/10/00 Mon
Tape Speed EP
CLEAR Cancel
MENU For next program

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.

TIMER RECORDINGS
1 Make a New Program
2 Review/Cancel Programs

MENU Exit

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.

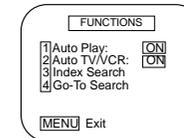**4**   Continue to press REC/OTR to increase the time length of the recording.

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

Using advanced features

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.

```
┌─────────────────────┐
│   ┌──────────┐       │
│   │ FUNCTIONS │      │
│   └──────────┘       │
│ 1 Auto Play:    [ON] │
│ 2 Auto TV/VCR:  [ON] │
│ 3 Index Search       │
│ 4 Go-To Search       │
│                      │
│ [MENU]  Exit         │
└─────────────────────┘
```

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 casssette 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.

```
┌─────────────────────┐
│     FUNCTIONS       │
│                     │
│ 1 Auto Play:    ON  │
│ 2 Auto TV/VCR:  ON  │
│ 3 Index Search      │
│ 4 Go-To Search      │
│                     │
│ MENU Exit           │
└─────────────────────┘
```

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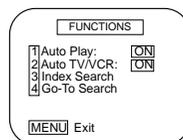
• If two recordings overlap, the index mark for the second program will be erased. Therefore, when you use the index feature to find the second program, the VCR will skip over it.

• 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 programs, 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.

```
┌─────────────────────┐
│   INDEX SEARCH      │
│                     │
│ Press REW or FF     │
│ to begin searching  │
│        or           │
│ Enter a specific    │
│ index number        │
│      _ _            │
│ MENU Exit           │
└─────────────────────┘
```

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.

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.

! 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.

Using advanced features, *continued*

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

```
┌─────────────────────┐
│   GO-TO SEARCH      │
│                     │
│ Current tape counter is │
│      2:17:28        │
│                     │
│ Press REW or FF     │
│ to go to  _ : - -: 00 │
│ MENU Exit           │
└─────────────────────┘
```

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 counnter to 0:00:00.
4 You can continue to play the tape or perform other functions with the VCR.

Child Lock

To disable to 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.
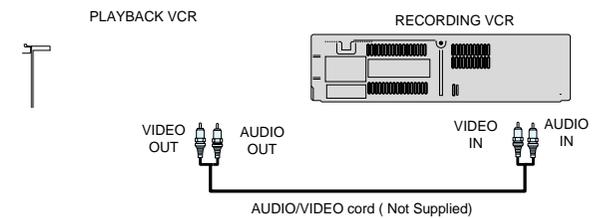
Using advanced features, *continued*

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.

PLAYBACK VCR   RECORDING VCR

VIDEO   AUDIO   VIDEO   AUDIO
OUT   OUT   IN   IN

AUDIO/VIDEO cord (Not Supplied)

Connecting a Camcorder to this VCR
For duplicating a previously recorded tape from a cam-
coder, follow the camcorder manufacturer's instructions.
A type of dubbing hookup is shown below. Be sure to
press INPUT on the recording VCR.

Setting up the VCRs for video cassette duplication

To duplicate a video cassette:

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
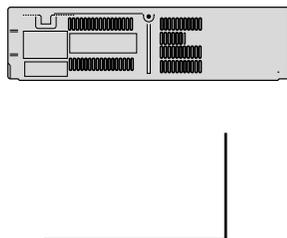
Glossary

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).
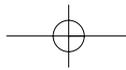
Troubleshooting

If you have a problem with your VCR, try the solutions listed below.

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 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 "⏻'is blinking.

Check that it is child lock mode or not and then press POWER to remove the indicator. If the emergency indicator continues to blink, 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

System	**VHS**
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
VHF output signal	Channel 3 or 4 (selectable)

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 43dB (SP)
Horizontal resolution	220 lines

Audio

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-l0KHz (SP)
Signal to noise ratio	Normal: more than 42 dB
Audio distortion	Normal: less than 4 % (SP)

Tape transport

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)

General

Power requirements	AC120V 60 Hz only
Power consumption	17 W(under 4W in standby mode)

Dimensions

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	6.41 lbs
Gross	8.81 lbs