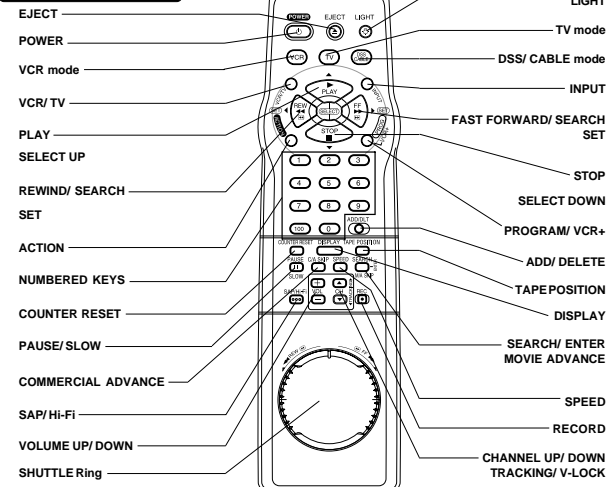


# Location of Controls

## Remote control Buttons

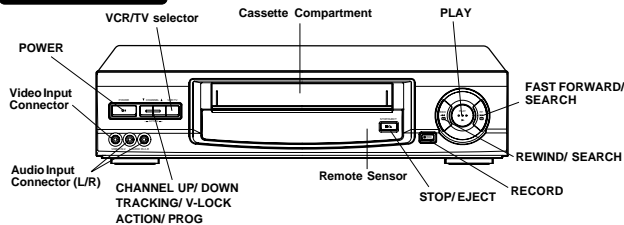


## Light Tower Universal Remote Control

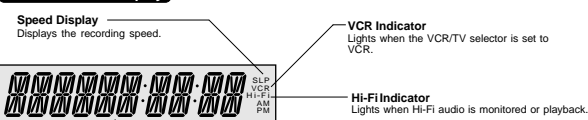
**Light button:** When the LIGHT button is pressed, the buttons which can be activated in the selected mode will light and the selected mode button (TV/VCR or CABLE DSS) will flash for 5 seconds. If no buttons are pressed within 5 seconds, the light will turn off in order to conserve battery power. Also while holding down the buttons, the selected mode button will flash so you will be able to see, in the dark, which mode has been selected.

**EJECT button:** When EJECT is pressed, the tape is ejected from Cassette Compartment. If EJECT is pressed during recording, the VCR will not respond to the command.

## Front View of the VCR



## Multi Function Display



## Clock/ Status/ Channel Display/ Prog

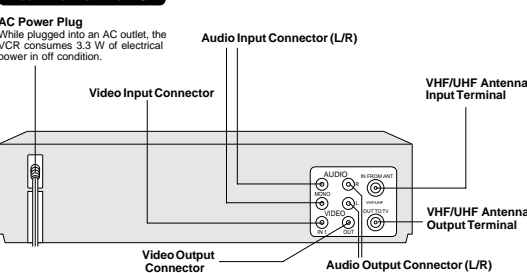
Displays the current time. Briefly displays VCR status when a function button is pressed. Briefly displays the channel number, or "LINE1" or "LINE2" when a channel or line input is selected. In demonstration mode, featured items are displayed. (See below.)

## Self Demo Mode

After first power on or VCR memory reset, Self Demo mode is started after 5 seconds. This mode is cancelled when clock is set. To restart, hold down PLAY on VCR for 5 seconds. To cancel, hold down PLAY again for 5 seconds.

- This mode is only possible when cassette is not inserted and clock is not set.

## Rear View of the VCR



# One Time VCR Setup

Please read the instructions carefully and in the order presented.

NOTE: Please look over the information before you begin setup procedure.

## Setup Overview

You will be performing the following tasks:

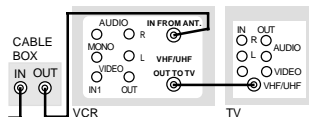
- Setting the language you want on-screen displays to appear in (English, Spanish, French.)
- Telling the VCR what kind of equipment you are using to receive channels and how it is connected.
- Entering pertinent cable box or DSS receiver information if used.
- Entering a local PBS channel so that the VCR can receive auto clock set data. (Not available in all areas.)
- Placing channels in memory and setting the clock.

## Please Note Which Connection Type You are Using.

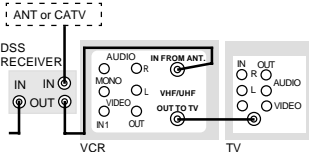
Make sure all equipment is hooked up. The diagrams below illustrate some of the basic connection types. Confirm which type you used for later reference.

### Connection Type A

#### <Cable box→VCR→TV connection>

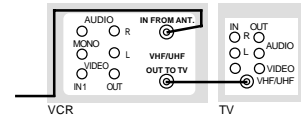


#### <DSS box→VCR→TV connection>

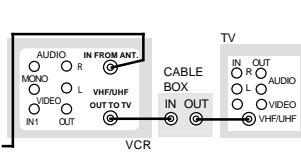


### Connection Type B

#### <VCR→TV connection>



#### <VCR→Cable box→TV connection>



## ONE TIME SETUP IMPORTANT NOTES:

- For detailed DSS receiver connection instruction, please see your DSS operating manual.
- The DSS receiver must be turned off to view programs from the cable box or antenna.
- If you use a DSS receiver, it must be turned off for auto clock set.
- If your cable box is not remote controllable, it must be tuned to your PBS channel.
- If you use Audio/ Video Jack connection between the VCR and cable box or DSS receiver, you must also connect the RF coaxial cable in order to use auto clock set and channel auto set features.

## When VCR is turned on the first time.

- Setup mode is entered automatically.
- Self Demo Mode is started automatically on Multi Function Display. When you set the clock, it is cancelled.

## Process of Setup

Language → Cable/DSS Receiver

1

Turn the TV and VCR on.  
Press POWER.  
Set TV Channel to CH 3.  
• If using AV Cable connection, set TV to Video instead of channel.

2

SELECT LANGUAGE  
PUSH CH ▲ : ENGLISH  
PRIMIR CH ▼ : ESPAÑOL  
APP. VCR/ TV : FRANÇAIS

TO CHANGE VCR'S OUTPUT CH. PUSH ACTION KEY.

Press ACTION

IF YOU PUSH ACTION KEY, VCR'S OUTPUT CH SWITCHES TO CH 4.

Press ACTION

PLEASE TUNE YOUR TV TO CH 4.

After 3 seconds

Display SELECT LANGUAGE.  
This display appears for first time setup only.

Select the language.

- CH ▲ for English
- CH ▼ for Spanish (ESPAÑOL)
- CH 0 for French (FRANÇAIS)

When using connection b), tune TV to VCR's output channel.  
If there is beat or noise on CH3, change VCR's output channel to CH4 by pressing ACTION twice.

3

SELECT HOOKUP  
CABLE/DSS BOX/VCR-TV  
VCR-CABLE/DSS BOX-TV  
VCR-TV

SELECT ▲▼ KEY  
SET ► KEY  
END : ACTION KEY

Select hookup.

- Press ▲ to select.
- Press ► to set.

• If you selected "CABLE/ DSS BOX ► VCR ► TV," continue with step 4. (Only cable box output channel will be placed in memory.)  
If not, go to "Alternate Instructions".

4

SELECT HOOKUP  
CABLE/DSS BOX/VCR-TV  
CABLE/DSS BOX OUTPUT CH  
CLOCK

SELECT ▲▼ KEY  
SET ► KEY  
END : ACTION KEY

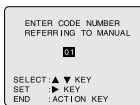
Select cable box or DSS receiver output channel.

- Press ▲ to select.
- Press ► to enter.

1 POWER  
2 VCR/TV  
3 SELECT/SET  
4 PLAY/STOP  
FF  
2 CH ▲▼

# One Time VCR Setup (continued)

5

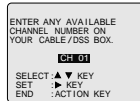


**Select Cable box or DSS receiver code.**

- 1) Press **▲** to select.
- 2) Press **▶** to enter.

\*If cable box or DSS receiver has no remote control, select "NO REMOTE." Then, go to "Alternate Instructions."  
\*This determines whether VCR will control cable box or DSS receiver.

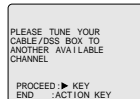
6



**Select available channel on your Cable box or DSS receiver.**

- 1) Press **▲** to select.
- 2) Press **▶** to set.

7

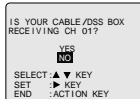


**Tune Cable box or DSS receiver channel.**

Press **▶** to continue.

\*"NOW TRANSMITTING" appears.

8



**Set receiver channel.**

- 1) Press **▲** to select "YES" or "NO."
- 2) Press **▶** to enter.

If "YES" with cable box, go to step 9.

If "YES" with DSS receiver, go to "Alternate Instructions".

If "NO," the screen in step 5 will appear. Try entering a different code and/or repositioning the equipment.  
If still "NO," cable box or DSS receiver is not available.

9



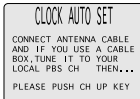
**Confirm that cable box is on and that DSS receiver is off.**

Select local PBS channel on cable box.

- 1) Press **▲** to select.
- 2) Press **▶** to set.

Continued on the right...

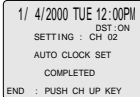
10



**Start Clock Auto Set.**

- Press CH **▲**
- \*"AUTO CLOCK SET PROCEEDING" appears.

11



**Confirm that time is correct.**

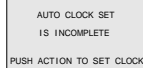
- Press CH **▲** to exit.

**If displayed time is incorrect...**

If your area observes DST (daylight saving time), but the time is incorrect, do "Time Zone Adjust" steps.  
Or, if you use cable box and receive more than one PBS station, try auto clock set again entering the one you have not tried yet (See "Clock.")

**If the screen below appears...**

Auto clock set data is not available in your area.  
Press ACTION to display Manual Clock Set screen, and then do steps b) - d) on next section.



**To Setup VCR in Case a Cable Box or DSS Receiver was Installed or Replaced.**

a Press ACTION to display Menu.

b Press **▲** to select "SET UP CHANNEL," then press **▶**.

c Press **▲** to select "CABLE/DSS BOX SET UP," then press **▶**.

d Press **▲** to select "CABLE/DSS BOX VCR TV," then press **▶** to set.

e Continue with steps 4-8 on previous section.

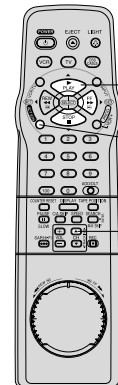
**Note**

Auto clock set will be performed when VCR is turned off the first time each day.  
Therefore, cable box must be left on and tuned to PBS channel before VCR power is turned off.

**Process of Setup**

Language → Cable/DSS Receiver

→ Channels → Clock



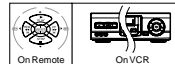
SELECT/SET  
▲:PLAY  
▼:STOP  
▶:FF  
ACTION

10 CH **▲**  
11

**Using **▲**/**▼**/**▶** keys**

You can also operate the menu screen using VCR buttons.

When menu screens are displayed, the PLAY, STOP, REWIND, and FF buttons on the VCR and remote function as **▲**/**▼**/**▶** only with no tape inserted.



▲:PLAY ◀:REW  
▼:STOP ▶:FF

To display menu using VCR buttons, press CH **▲** and CH **▼** together.  
To exit the menu, repeat above.

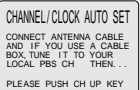
# One Time VCR Setup (continued)

## Alternate Instructions

Complete steps below if any of the following applies:

- Selected connection type B (VCR ► CABLE/DSS BOX ► TV or VCR ► TV).
- Selected "NO REMOTE."
- Selected "YES" with DSS receiver. (Be sure to turn DSS power off.)

1

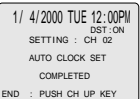


**Start Channel Auto Set and Clock Auto Set.**

Press CH **▲**.

\*The following messages appear:  
"CH AUTO SET PROCEEDING"  
"AUTO CLOCK SET PROCEEDING"

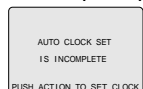
2



**Confirm that time is correct.**

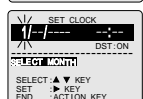
- Press CH **▲** to exit.

**Clock Setup incomplete...**



**Set the clock manually.**

a) Press ACTION.



b) Press **▲** to select month.

c) Press **▶** to set.

\* Likewise, set date, year, time, DST (Daylight Saving Time).

To Make Corrections, repeatedly press **◀** to move to error, then correct.



d) Press ACTION. (Clock starts.)

\* To exit this mode, press ACTION again.

**Note**

If you use a DSS receiver, it must be turned off.

**If displayed time and DST are incorrect...**

If you use cable box and receive more than one PBS station, try auto clock set again entering the one you have not tried yet. (See "Clock.")

If you happen to live close to two time zones, VCR may have recognized PBS channel (setting channel) in the wrong time zone. Please do the following to correct the situation.

- 1) Make a note of SETTING: CH number shown on screen and press CH **▲** to exit.
- 2) Delete the channel from VCR memory. (See "Add or Delete a Channel.")
- 3) Press ACTION to display the menu.
- 4) Press **▲** to select "SET CLOCK," and then press **▶** to display the SET CLOCK screen.
- 5) Press **▲** and **▶** to select and set "AUTO CLOCK SET."
- 6) Follow One Time VCR Setup instructions.

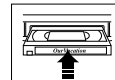
\* If you use cable box and have multiple PBS stations, tune cable box to a different PBS station and try auto clock set using the menu.

# Playback a Tape

☒ **Check list before you begin.**

- ☐ All connections are made.
- ☐ TV and VCR are plugged in.
- ☐ TV is turned on and set to CH3, 4 or Video on TV.
- ☐ Remote is in VCR mode.

1



**Insert a cassette.**

\* VCR power comes on and "VCR" appears on Multi-Function Display.

2



**Press PLAY.**

\* Or, if cassette has no record tab, auto playback begins.

- To Find a Particular Scene Forward Search → Press FF. (To release, press PLAY or FF.)  
Reverse Search → Press REW. (To release, press PLAY or REW.)
- For Still (Freeze) picture → Press PAUSE/SLOW. (To release, press PLAY.)
- For Frame by Frame picture → Press PAUSE/SLOW in Still mode. (To release, press PLAY.)
- For Slow Motion → Press and hold PAUSE/SLOW in Still mode. (To release, press PLAY.)

**Notes**

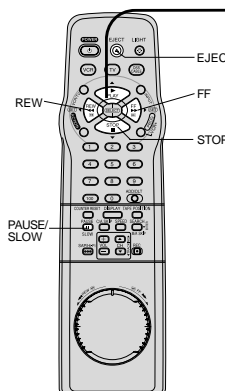
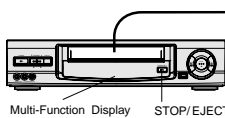
- \* These features work best in SP or SLP mode.
- \* The sound will be muted.
- \* To reduce picture noise, see "Manual Tracking Control."
- \* After the VCR is in Still or Slow mode for 3 minutes, it will switch to Stop mode automatically to protect the tape and the video head.

■ To stop → Press STOP.

**Rapid Rewind/FF**

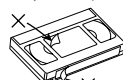
- To rewind tape → Press REW in Stop mode.
- To fast forward tape → Press FF in Stop mode.
- \* Rewinds your tape in approximately one minute when using a T-120 tape.

■ To eject tape → Press EJECT on the remote or STOP/EJECT on the VCR.



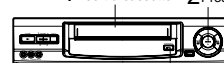
**Note**

● To prevent tape jam  
Inspect your cassette tapes and remove any loose or peeling labels.



**Playback using VCR controls**

1 Insert a cassette. 2 Press PLAY.

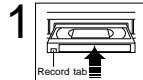


■ Press to stop and/or eject tape.

# Record on a Tape

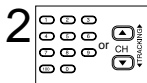
## Check list before you begin.

- ☐ All connections are made.
- ☐ TV is turned on and tuned to CH3, 4 or Video.
- ☐ Cassette record tab is in place.
- ☐ Remote in VCR mode.



### Insert a cassette.

- VCR power comes on and "VCR" appears on Multi-Function Display.



### Select Channel.

Press CH ▲/▼\* or NUMBERED keys.

- To select channels 100 or greater first press 100 key, then enter remaining two digits.



### Select Recording speed.

Press SPEED.

- SP = Standard Play
- LP = Long Play
- SLP = Super Long Play
- Selected speed is displayed on TV screen and Multi-Function Display.



### Start Recording.

Press REC.

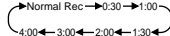
- To edit out unwanted portions, press PAUSE/SLOW to pause and to resume recording.

### To stop --> Press STOP.

#### One Touch Recording

Press REC repeatedly to set the recording length (30 min. ~ 4 hours).

- The VCR turns itself off at a preset time.



Record One Program While Watching Another  
Press VCR/TV --> "VCR" disappears on Multi-Function Display --> Select Channel at the TV.

### Selecting Channel at the VCR

Press VCR/TV --> "VCR" appears on Multi-Function Display --> Select Channel at the VCR (applies to connection b) only).

#### Record using VCR controls

- Select Channel.
- VCR/TV
- Insert a cassette.
- Start Recording.



Press to stop.

### Note

After the VCR has been in Pause mode for 5 minutes, it will stop automatically to protect the tape and the video head.

This video recorder, equipped with the HQ (High Quality) System, is compatible with existing VHS equipment. Only use those tapes with the **VHS** mark. It is recommended that only cassette tapes that have been tested and inspected for use in 2, 4, 6, and 8 hour VCR machines be used.

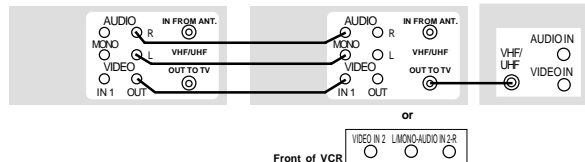
# Copying Your Tapes (Dubbing)

## Connections you'll need to make.

Playing (Source) VCR

Recording (Editing) VCR

TV for Monitoring

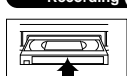


### Playing (Source) VCR



Insert pre-recorded tape.

### Recording (Editing) VCR



Insert blank tape with record tab.



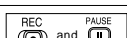
Put in Standby mode. Press PLAY, then PAUSE/SLOW at starting point.



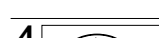
Put in Standby mode. Press REC, then PAUSE/SLOW immediately.



Start dubbing. Press PLAY.



Start dubbing. Press PAUSE/SLOW.



Stop dubbing. Press STOP.



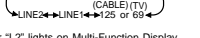
Stop dubbing. Press STOP.

### To Monitor Dubbing on Your TV

- Turn your TV on and tune to the Recording VCR channel (CH3 or CH4).
- Set the VCR/TV Selector on the Recording VCR to "VCR."

### Selecting the Input Mode

- Method1: Press INPUT.  
Channel Number <--> LINE1 <--> LINE2  
Method2: Press CH ▲/▼. Display will change as below.



### Note

Dubbing tapes protected with Copy Guard will have poor quality results.

Caution: Unauthorized exchanging and/or copying of copyrighted recordings may be copyright infringement.

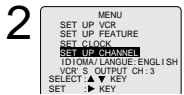
# Timer Recording Using VCR Plus+® System

## Auto VCR Plus+ System Channel Setup (Part 1)

In order for VCR to read PlusCode, some set up is required. Guide (PlusCode) channel number is assigned to each local broadcast and cable station. Because this number sometimes differs from channel TV receives station on, it is necessary to program the VCR with local channel information. To receive VCR Plus+ channels automatically, perform the steps below. Or, see "Manual VCR Plus+ System Channel Setup" section.

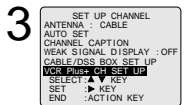


Display MENU.  
Press ACTION.\*



Display SET UP CHANNEL.

- Press ▲ to select.
- Press ► to display.



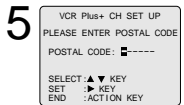
Display VCR Plus+ CH SET UP.

- Press ▲ to select.
- Press ► to display.



Select AUTO SET.

- Press ▲ to select.
- Press ► to set.



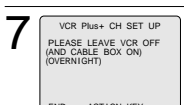
Enter Postal Code.

- Press ▲/► to select and enter each number.
- Press ► or ACTION to set.



Select When to Update.

- Press ▲ to select.
- Press ► to set.



End setup.

- Press ACTION.

- Make sure to leave VCR off (overnight). If controllable, leave your cable box on.

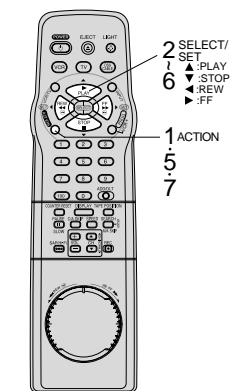
VCR Plus+ System is ... a feature that allows you to set most items of a timer recording by simply entering a special code number (PlusCode programming number) found in TV GUIDE and selected newspaper TV listings.

## Process of Recording

Setup → Programming

### Important Note

- "One Time VCR Setup" must be completed before "Auto VCR Plus+ System Channel Setup" can be done. If any part of setup is incomplete, a warning screen appears.
- If your VCR connection type changes from type A to B, perform "To Setup VCR in Case a Cable Box or DSS Receiver was installed or Replaced" section before proceeding with these steps.
- Complete this page only if type B connection is used.



### Notes

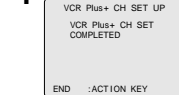
- Make each entry within 5 minutes or VCR will leave this mode.
- Once local channels have been programmed, they will stay in memory, even in the case of a power failure.
- "ALL SET" will flash on Multi-Function Display during Auto VCR Plus+ System Setup.
- If the start time for a timer recording comes up during Auto VCR Plus+ System Setup, the timer recording will have priority.

## Auto VCR Plus+ System Channel Setup (Part 2)

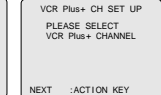
Before you perform the following steps, you should have:  
• completed "Auto VCR Plus+ System Channel Setup (Part 1)".

• left VCR off overnight, and turned it back on after 9:00 AM the next day.

If channel updating was successful...



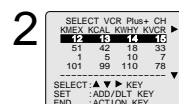
If VCR could not distinguish channel map...



Exit this mode. Press ACTION.

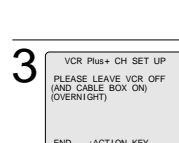
Display SELECT VCR Plus+ CH.

- Press ACTION to display.
- Continue with step 2.



Select channel map for your area.

- Press ▲ to select.
- Press ADD/ DLT to set.



End Setup.

- Press ACTION.

- Make sure to leave VCR off (overnight). If controllable, leave your cable box on.

Channel map will be updated overnight. If it was successful, "VCR Plus+ CH SET COMPLETED" appears on screen. And then, press ACTION to exit.

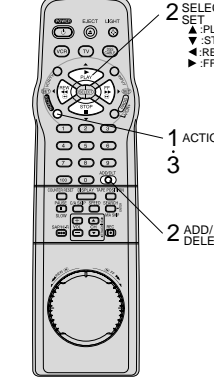
Repeat these steps as necessary.

If Auto Setup fails, do "Manual VCR Plus+ System Channel Setup".

## Process of Recording

Setup → Programming

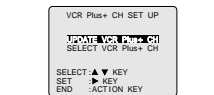
Setup → Programming



## To Change or Update Auto VCR Plus+ System Channel Setup

(E.g. you selected wrong channel map or post code channel.)

a Do "Auto VCR Plus+ System Channel Setup (Part 1)" steps 1-4.



b Press ▲ to select UPDATE VCR Plus+ or SELECT VCR Plus+ CH, then press ►.

c If you selected UPDATE VCR Plus+ CH, perform steps 5-7 in the "Auto VCR Plus+ System Channel Setup (Part 1)" section.

If you selected SELECT VCR Plus+ CH, perform steps 2-3 in the "Auto VCR Plus+ System Channel Setup (Part 2)" section on this page.

# Timer Recording Using VCR Plus+® System (continued)

## Manual VCR Plus+ System Channel Setup

- Before you begin, complete "Channel Setup Preparations" below right.

### Important Note

- If your VCR connection type changes from type A to B, perform "To Setup VCR in Case a Cable Box or DSS Receiver was Installed or Replaced" section before proceeding with these steps.

### 1 Do "Auto VCR Plus+ System Channel Setup (Part 1)," steps 1-3.

### 2 Select MANUAL SET.

- Press **▲** to select.
- Press **▶** to set.

### IMPORTANT NOTE:

- For step 3, use the list you prepared. You may leave lines blank if you don't receive that station, or if the GUIDE CH number and the RECEIVE CH numbers are the same.

### 3 Select VCR Plus+ channels.

- Press **▶** to move cursor to right column.
- Press **▲** to change RECEIVE CH number.
- Press **◀** to set.
- Press **▲** to scroll up/down GUIDE CH column.
- Repeat step 3 until list is complete.

- To make corrections, Press **▲** and **▶** to move to error, then **▲** to change, or **ADD/DEL** to erase number.

### 4 End setup.

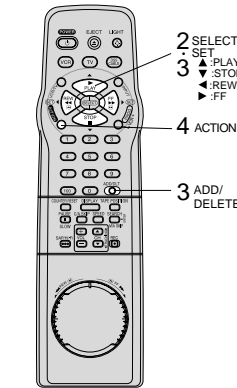
### Notes

- Make each entry within 5 minutes or the VCR will exit this mode.
- Once local channels have been programmed, they will stay in memory, even in the case of a power failure.

VCR Plus+, C, ALLSET, and PlusCode are trademarks of Gemstar Development Corporation. The VCR Plus+ system is manufactured under license from Gemstar Development Corporation.

## Process of Recording

Setup ⇌ Programming



### Channel Setup Preparations

In order to complete step 3 left, make a local channel list (see example below).

- You will need the following:
  - A line up of normal TV and/or Cable or DSS (when DSS receiver is connected only) stations and the channel number you receive them on.
  - A list of Guide (PlusCode) channel numbers for the stations you receive found in TV Guide and selected newspapers.

1 Make a 3-column chart. In the left column, write the name of all the stations you receive.

2 In the middle column, write each station's Guide (PlusCode) number from TV Guide.

3 In the right column, write the channel number your TV receives the station on.

### EXAMPLE ONLY

| Broadcast or Cable Station Name | Assigned Guide (PlusCode) channel no. | Channel no. your TV receives the station on |
|---------------------------------|---------------------------------------|---|
| HBO                             | 33                                    | 15  |
| Nickelodeon                     | 38                                    | 20  |
| CBS                             | 04                                    | 04  |
| FOX                             | 11                                    |   |

## Check list before you begin.

- ☐ The clock is set.
- ☐ VCR Plus+ System Setup is complete.

## Process of Recording

Setup ⇌ Programming

## VCR Plus+ System Programming

### 1 Display SET PROGRAMMING.

Press PROG/VCR+.

### 2 Display VCR Plus+ screen.

- Press **▲** to select.
- Press **▶** to display.

### 3 Enter PlusCode programming number.

- Press Numbered keys.
- Press PROG/VCR+ to lock in the program.

### 4 Enter record frequency.

- Press **▲** to select program type.
- Press **▶** to set.

### 5 Select Category.\*\*

- Press **▲** to change.
- Press **▶** to set.

### 6 Change record speed.

Repeat 1) and 2).

### 7 Make notes.

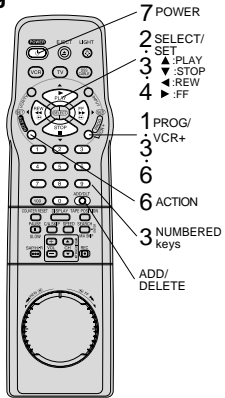
- If not wanted, go to step 6.

### 8 End programming.

### 9 Set timer.

Press POWER off.

Multi-Function Display



\*\* Category Items (N/A not applicable): SPORTS, MOVIE, COMEDY, MUSIC, DRAMA

### Use normal Timer Recording steps if:

- the PlusCode programming number for a program is not listed.
- you anticipate the program, such as a sporting event, to run over the scheduled stop time.

- Important notes for DSS/Cable Box users
  - When recording via DSS, the receiver, must be left on.
  - When recording via cable or antenna, DSS receiver must be off.

### Note

- Avoid overlapping program times.

# Tape Operation

## COMMERCIAL-ADVANCE®

COMMERCIAL-ADVANCE® detects and marks the beginning and end points of commercials on your tape for recordings over 15 minutes in length. When a COMMERCIAL-ADVANCE® marked tape is played back, the VCR automatically advances through the commercial segments at high speed. You can also set this feature to Manual so as to have more control over the advance process. The effectiveness of this system can vary due to

## Check list before you begin.

- ☐ All connections are made.
- ☐ One time Setup has been completed.
- ☐ VCR is plugged in.
- ☐ TV is set on and set to CH3, 4 or Video on the TV.

## COMMERCIAL-ADVANCE® Marking

When C/A RECORD is selected, the VCR automatically rewinds the tape after a recording has been made and marks the beginning and end of any detected commercial blocks. After marking is done, the tape is returned to the end of the recording. Commercials are not erased from the tape.

### 1 Display MENU.

Press ACTION.\*

### 2 Display SET UP FEATURE.

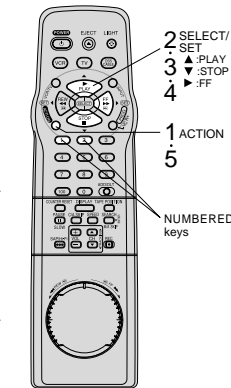
- Press **▲** to select.
- Press **▶** to display.

### 3 Display SET UP COMMERCIAL ADV.

- Press **▲** to select.
- Press **▶** to display.

### 4 Set ON or OFF.

- Press **▲** to select.
- Press **▶** to set.



### Note

- When using the timer to record two adjacent shows on the same channel, better accuracy can be obtained by programming each show separately.

ON Timer, VCR Plus+ System, and One Touch recordings are marked automatically.

When STOP is pressed during normal recording, select a) or b) or c).

- Press 1 key to mark the recording NOW.
- Press 2 key to mark the recording LATER (after the power has been turned off).
- Press ACTION to cancel the marking of this recording.

OFF The VCR will not mark commercials. When you are editing or dubbing a tape, or when you do not wish to use this feature, OFF should be selected.

### 5 Return to normal screen.

Press ACTION three times.

## COMMERCIAL-ADVANCE® Playback

When playing back recordings which have been marked using COMMERCIAL-ADVANCE® feature, you can either set the VCR to automatically advance through marked commercial blocks, or set it so that commercials are only skipped on your command.

### 1 Display MENU.

Press ACTION.\*

### 2 Display SET UP FEATURE.

- Press **▲** to select.
- Press **▶** to set.

### 3 Display SET UP COMMERCIAL ADV.

- Press **▲** to select.
- Press **▶** to set.

### 4 Set AUTO or MANUAL.

- Press **▲** to select.
- Press **▶** to set.

### 5 AUTO

VCR will automatically advance through marked commercial blocks recorded on the tape and then resume playback.

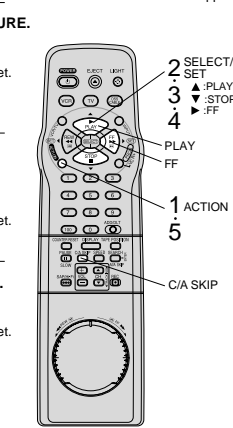
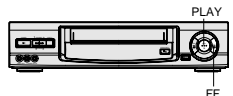
MANUAL VCR will advance through commercials only when C/A SKIP is pressed. Playback will resume when the end mark of a commercial block is found, or a new recording or blank portion is detected, or after 8 minutes.

### 6 Return to normal screen.

Press ACTION three times.

### 7 Notes

- The selection mode in step 4 remains set unless there is a power outage in which case the original factory setting will be restored.
- If playback is started in the middle of a commercial, only a single commercial is shown, or an individual commercial is longer than 1 minute, a commercial may not be skipped.
- Press FF to quickly advance through the commercial.
- Part of a recorded program may be skipped over if the program portion between commercials is less than one minute or there are frequent dark and quiet scenes during the program. To view the portion of tape being incorrectly skipped, press PLAY while the VCR is skipping, reverse the tape to a point just prior to where the skipping began and press PLAY again. This time the group will not be automatically skipped. Automatic skipping will be re-enabled when the end of the marked group is detected.



COMMERCIAL-ADVANCE® and MOVIE-ADVANCE® are registered trademarks of SRT, Inc. A Jerry Iggulden invention licensed in association with Arthur D. Little Enterprises, Inc. U.S. Pat. No. 5,333,091; 5,692,093; 5,696,866 other patents pending

# Tape Operation (continued)

The most commonly asked questions about **COMMERCIAL\*\*ADVANCE\*\*** are answered below.

| Question   | Answer   |
|--|--|
| How fast does the VCR advance through commercials?   | The VCR advances through a 3-minute commercial block in about 8 to 12 seconds if the tape speed is SLP. In SP, it takes about 25 to 35 seconds.                              |
| Are commercials advanced through only when I play back a recording?  | Yes. The commercials are not marked until after the recording is finished.   |
| Are commercials still recorded on the tape in case I choose to view them sometime?   | Yes. By setting the C/A PLAYBACK to MANUAL, see previous section, you can view or advance through commercials as desired.  |
| Does <b>COMMERCIAL**ADVANCE**</b> work in all recording speeds?  | Yes, <b>COMMERCIAL**ADVANCE**</b> works in SP, LP, and SLP.  |
| Does the VCR advance through commercials each time I play back tapes which were recorded using <b>COMMERCIAL**ADVANCE**</b> ?  | Yes. As long as C/A PLAYBACK is set to AUTO, see previous section, the VCR should advance through commercials each time the tape is played back.                             |
| After marking commercials, does the VCR stop at the end of the tape, or rewind to the beginning?   | The tape stops at the end of the recording so that any additional timer recordings can be performed.   |
| Can I play my <b>COMMERCIAL**ADVANCE**</b> recordings in non- <b>COMMERCIAL**ADVANCE**</b> VCRs?   | Yes. <b>COMMERCIAL**ADVANCE**</b> marked recordings will play in non- <b>COMMERCIAL**ADVANCE**</b> VCRs, but commercials will not be advanced through.                       |
| Does the marking process interfere with other programmed recordings?   | No. If the interval between 2 or more timer programs is not sufficient to mark the recording, marking will be done after all recordings are complete and the power goes off. |
| What happens if I cancel the marking in progress so I can use the VCR?   | Marking will be resumed when the VCR's power is turned off as long as the tape has not been ejected.   |
| What if part of my program is advanced through along with the commercials?   | Please see the 3rd note on previous section.   |
| <b>Additional Notes:</b> <ul style="list-style-type: none"> <li>Because of the various ways in which commercials are broadcast, the VCR may not be able to recognize all commercials.</li> <li>If a timer recording is scheduled for the middle of the night, please be aware that the VCR will make some noise as it rewinds and fast forwards the tape while marking commercials.</li> </ul> |  |

**COMMERCIAL\*\*ADVANCE\*\*** and **MOVIE\*\*ADVANCE\*\*** are registered trademarks of SRT, Inc. A Jerry Juggliden invention licensed in association with Arthur D. Little Enterprises, Inc.

U.S. Pat. No. 5,333,091;  
5,692,093; 5,696,866  
other patents pending

## MOVIE\*\*ADVANCE\*\*

**MOVIE\*\*ADVANCE\*\*** helps you locate certain parts of pre-recorded movies (rented or purchased). The feature works in two ways.

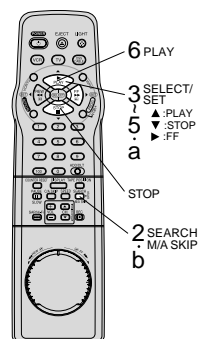
- You can go to the beginning of the movie.
- You can skip from one preview to the next.

**MOVIE\*\*ADVANCE\*\*** works only on cassettes recorded in SP speed with the record tab removed.

- Insert a cassette without a record tab.**
- Display "SELECT SEARCH MODE."**  
1) Press SEARCH/ M/A SKIP.\*
- Display MOVIE ADVANCE.**  
1) Press ▲▼ to select.  
2) Press ► to set.
- Select "GO TO START OF MOVIE" or "GO TO PREVIEW."**  
Press ▲▼ to select.  
Select "GO TO START OF MOVIE," if you want to advance directly to the beginning of the movie.  
-> continue with step 5.  
Select "GO TO PREVIEW," if you want to view the first (next) preview.  
-> go to "To Search for Preview" at right.
- Start searching.**  
Press ►. To cancel, press STOP.

## Check list before you begin.

- All connections are made.
- One time Setup has been completed.
- VCR is plugged in.
- TV is turned on and set to CH3, 4 or Video on the TV.



## To Search for Preview.

You can override the operation of **MOVIE\*\*ADVANCE\*\*** SEARCH FOR PREVIEWS mode by pressing SEARCH/ M/A SKIP during tape searching. **MOVIE\*\*ADVANCE\*\*** works by searching the tape past each preview and then reversing back to the start of the detected preview. While the tape is reversing back, if SEARCH/ M/A SKIP is pressed, **MOVIE\*\*ADVANCE\*\*** will begin searching for the next preview. While searching for the next preview, if you see the start of a preview which you wish to watch, press SEARCH/ M/A SKIP and **MOVIE\*\*ADVANCE\*\*** will immediately reverse back to the start of that preview, instead of searching further past the preview start point. Once the VCR is playing a preview, press SEARCH/ M/A SKIP to advance to the next preview, long commercial or the start of the movie (whichever is next).

- a** Start preview searching.  
1) In step 4 at left, select Go TO PREVIEW.  
2) Press ►.
- If you want to playback, press PLAY.

**b** When a preview is detected, the VCR will start playback.

Start the next preview search.  
Press SEARCH/ M/A SKIP.  
To cancel, press STOP.

## When the movie is found...

- Start playback.**  
Press PLAY.  
To cancel, press STOP.  
The display disappears after 3 minutes and the VCR will enter the Stop mode.

# Tape Operation (continued)

## Search System

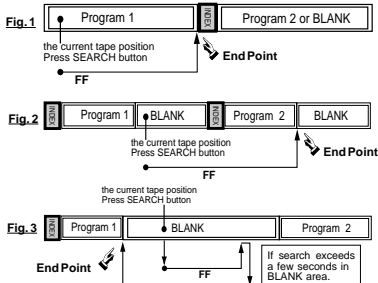
Each time a recording is made, an invisible index mark is placed on the tape. When timer recordings are made, program index and information are also included. These index marks can be used to access or scan recordings.

### Program End Search

It is easy to locate the end of a recorded program allowing you to continue recording where you left off.

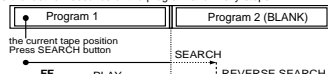
- Display SELECT SEARCH MODE in Stop or Play mode.**  
Press SEARCH/ M/A SKIP.\*
- Select PROGRAM END SEARCH.**  
1) Press ▲▼ to select.  
2) Press ► to start search.

Examples of Program End Search operation.



### If Program End Point (E) is found.

The search continues slightly beyond the end point, then search and reverse search and plays the last few seconds of the program and finally stops.



### Notes

- If Program End Search is started very close to an index mark, one program may be skipped over.
- To cancel Program End Search, press PLAY or STOP.

## Program Index Search (For timer recordings only)

Choose a timer recorded program from a Program Index List. When the tape is ejected or normal recording is started, all program index data is deleted.

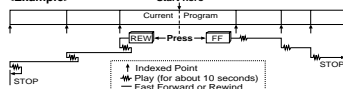
- Display SELECT SEARCH MODE in Stop or Play mode.**  
Press SEARCH/ M/A SKIP.\*
- Display PROGRAM INDEX.**  
1) Press ▲▼ to select.  
2) Press ► to display.
- Select the desired recorded program.**  
1) Press ▲▼ to select.  
2) Press ► to start the forward or rewind search.  
When search is finished, playback begins.

## Index Scan (For normal and/or timer recordings)

In Play mode, the first 10 seconds of each recording can be scanned (forward or reverse).

- Display SELECT SEARCH MODE in Stop or Play mode.**  
Press SEARCH/ M/A SKIP.\*
- Select INDEX SEARCH.**  
1) Press ▲▼ to select.  
2) Press ► to display.  
This screen appears only if there are timer recordings.
- Start scan.**  
Press FF or REW.
- Cancel scan, start playback.**  
Press PLAY.  
To stop, press STOP.

### <Example>



## Auto Operation Functions

### Auto Playback

Insert tape -> Power turns on -> Starts playback if record tab is removed.

### Auto Rewind

Playback Manual Record -> Tape end -> Fast Forward -> Rewinds (Auto)

### Playback Auto Eject (Repeat Play is "OFF")

Playback -> Tape end -> Rewinds -> Tape ejects (if without record tab)

### Memory Rewind Off

Rewind -> Press POWER -> Turns off after completed

# Tape Operation (continued)

## Direct Access (For normal and/or timer recordings)

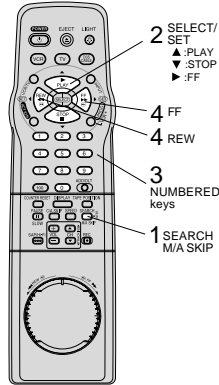
Go directly to desired recording.

- 1** **Display SELECT SEARCH MODE** in Stop or Play mode. Press SEARCH/ M/A SKIP.\*
- 2** **Select INDEX SEARCH.**
  - 1) Press **▲▼** to select.
  - 2) Press **▶** to display.

\* This screen appears only if there are timer recordings.
- 3** **Select the recording number.**

Press **NUMBERED** keys.

  - To calculate number, see below.
- 4** **Start search.** Press FF or REW.
  - When search is finished, playback begins.



### ■ To Calculate Index Number

**Example 1:**  
If you are watching recording 4 and you want to watch recording 2, enter 3 in step "3" and press REW.



**Example 2:**  
If you are watching recording 2 and you want to watch recording 6, enter 4 in step "3" and press FF.



NOTE: ↑ indicates start points of each recording.

### Notes

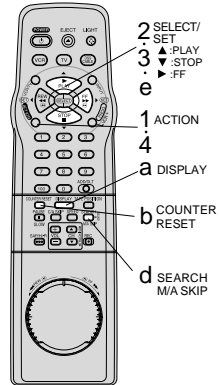
- Make each entry within 10 seconds, or the Index Search mode will be cancelled.
- If Direct Access or Index Scan is started very close to an index mark, that index mark may not be counted in the search.

## Repeat Play

Set to see a recording over and over.

- 1** **Display MENU.** Press ACTION.\*
- 2** **Display SET UP VCR.**
  - 1) Press **▲▼** to select.
  - 2) Press **▶** to display.
- 3** **Set ON or OFF.**
  - 1) Press **▲▼** to select "REPEAT PLAY".
  - 2) Press **▶** to set.

\* Playback repeats when tape end is reached or unrecorded portion over 30 seconds is detected.
- 4** **Return to normal screen.** Press ACTION twice.



## Zero Search

To quickly return to specific tape counter location.

- a** **Display Counter.** Press DISPLAY during playback.
- b** **Reset to "0:00:00."** Press COUNTER RESET at the desired position.
- c** **Continue Recording, playback etc.**
- d** **Display SELECT SEARCH MODE** in Stop mode. Press SEARCH/ M/A SKIP.\*
- e** **Start ZERO SEARCH.**
  - 1) Press **▲▼** to select.
  - 2) Press **▶** to display.

\* Unit will go into FF or REW mode and stop at the last point the Counter was set to 0:00:00.

# Special VCR Features

## Channel Caption

When set, station name, e.g. ABC, CBS, and channel number appear on-screen. Set up to 24 preset captions, and/or 10 manually created captions.

□ You need a list of stations and the channel numbers you receive them on.

### Preset Caption

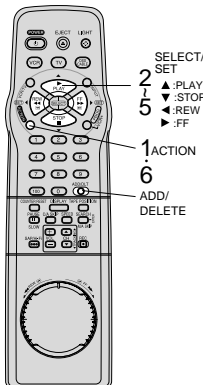
- 1** **Display MENU.** Press ACTION.\*
- 2** **Display SET UP CHANNEL.**
  - 1) Press **▲▼** to select.
  - 2) Press **▶** to display.
- 3** **Display CHANNEL CAPTION.**
  - 1) Press **▲▼** to select.
  - 2) Press **▶** to display.
- 4** **Display PRESET CAPTION.**
  - 1) Press **▲▼** to select.
  - 2) Press **▶** to display.

\* To create your own captions, go to "Manual Caption".
- 5** **Assign preset captions.**
  - 1) Press **▲▼** to highlight caption.
  - 2) Press **▶** to move cursor to the right.
  - 3) Press **▲▼** to select CH number.
  - 4) Press **◀** to set.

\* Repeat step 5 until the list is complete.

**To make corrections.**  
Press **▲▼** and **▶** to select the channel number, then press **▲▼** to change, or ADD/DLT to delete the number.

- 6** **End setup.** Press ACTION four times.



## Manual Caption

- 1** Do "Preset Caption" steps 1-3.

- 2** **Display MANUAL CAPTION.**
  - 1) Press **▲▼** to select.
  - 2) Press **▶** to display.
- 3** **Select channel number.**
  - 1) Press **▲▼** to select CH NUMBER.
  - 2) Press **▶** to move cursor to the right.

\* Channels already set and channels deleted from Channel Memory are not displayed.  
\* You can set a total of ten channel captions.
- 4** **Enter CAPTION.**
  - 1) Press **▲▼** to select.
  - 2) Press **▶** to enter.

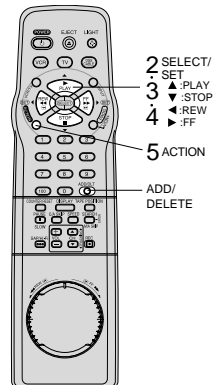
\* Characters change in following order.  
→ A a B b C c ... Z z BLANK (space) ... 0 1 2 3 4 5 6 7 8 9 →

  - 3) Press **◀** to set.

\* Repeat steps 3 and 4 as desired.

**To make corrections.**  
Press **◀▶** to move to the incorrect entry, then press **▲▼** to make correction. Or, press ADD/DLT to clear the caption.

- 5** **End input.** Press ACTION four times.



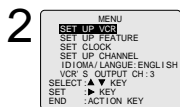
# Special VCR Features (continued)

## Time Stamp Feature

The VCR writes program data (see example below) about the first 10 seconds of every recording. The information is then displayed the first 10 seconds of playback. To change the data, see "Changing Time Stamp Data".



**Display MENU.**  
Press ACTION.\*



**Display SET UP VCR.**

- 1) Press ▲▼ to select.
- 2) Press ► to display.



**Set ON or OFF.**

- 1) Press ▲▼ to select.
- 2) Press ► to set.

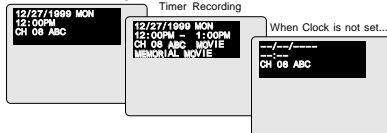
• When "OFF" is selected, the program data is written on the tape, but will not be displayed.



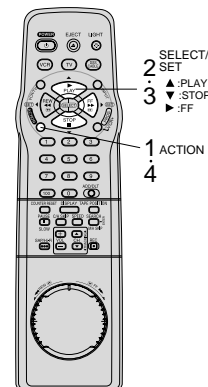
**Return to normal screen.**  
Press ACTION twice.

<Time Stamp Example>

One Touch Recording



- ☒ Check list before you begin.
- ☐ Clock is set to correct time.
  - ☐ Record tab in place.



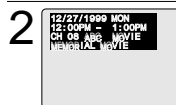
## Changing Time Stamp Data

You may change the Date, Time, Channel, Category, and Notes.



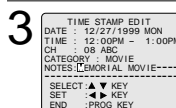
**Display Time Stamp Data.**

- 1) Insert cassette with record tab.
- 2) Press PLAY.



**Display TIME STAMP EDIT.**

Press PROG/VCR+ while the data is displayed in Playback mode.



**Change Time Stamp Data.**

- 1) Press ▲▼ to select.
- 2) Press ► to enter and continue.

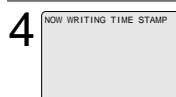
• Characters in NOTES will change in the following order.

→A→B→C→...→Z→BLANK→...→&→

- 3) Repeat 1) and 2) as needed.

To make corrections,

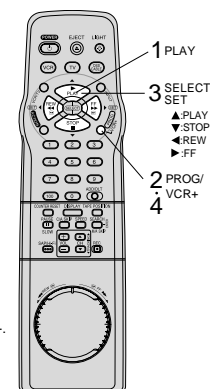
Press ◀▶ to move to the incorrect entry, then press ▲▼ to make the correction.



**Write the new data.**

Press PROG/VCR+.

• When data is written, VCR returns to Stop mode.



# Special VCR Features (continued)

## Tape Position Display Feature

To find out the present tape position.

Tape position cannot be found for C-Cassette type and tape of less than 60 minutes.



**Detect Tape Position.**  
Press TAPE POSITION.

• "DETECTING TAPE POSITION" only appears the first time a cassette is inserted.

• The present tape position indication is displayed.



**Return to normal screen.**  
Press TAPE POSITION.

## Remote Warning ON/OFF Feature

If Multi-brand feature is used, and this feature is set to on, a warning appears whenever an invalid key is pressed in TV, DSS, or Cable mode.



**Display MENU.**  
Press ACTION.



**Display SET UP VCR.**

- 1) Press ▲▼ to select.
- 2) Press ► to display.



**Set ON or OFF.**

- 1) Press ▲▼ to select.
- 2) Press ► to set.

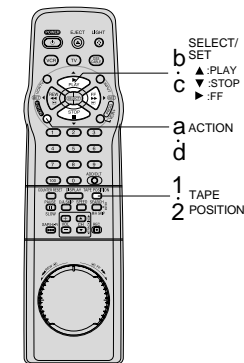
• "OFF" → remote warning will not appear even if invalid key is pressed.



**Return to normal screen.**  
Press ACTION twice.

- ☒ Check list before you begin.

- ☐ All connections are made.
- ☐ VCR is plugged in.
- ☐ TV is turned on and tuned to CH3, 4 or Video.



## VCR Lock Feature

All operations are prohibited except timer recording and tape eject. Useful for families with small children.



Press REC in Stop mode.



**To turn on:**  
In Stop mode, hold down REC on the VCR without a cassette inserted for 7 seconds.



**To turn off:**  
Repeat above.

• VCR Lock is cancelled automatically after 24 hours if clock is set.

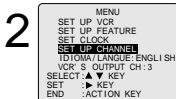


## Weak Signal Display ON/OFF Feature

When "ON" is selected, picture is displayed even when broadcast signal is weak or nonexistent.

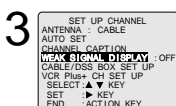


**Display MENU.**  
Press ACTION.\*



**Display SET UP CHANNEL.**

- 1) Press ▲▼ to select.
- 2) Press ► to display.



**Set ON or OFF.**

- 1) Press ▲▼ to select.
- 2) Press ► to set.

• ON → Picture is displayed regardless of signal condition, and may not always be clearly visible.  
• OFF → Screen turns solid blue when signal is absent or weak.  
• If VCR is connected to equipment which has blue back feature, selecting ON will have no effect on the other equipment.

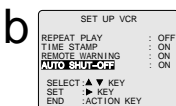


**Return to normal screen.**  
Press ACTION twice.

## Auto Shut-Off Feature

When "ON" is selected, VCR shuts itself off when playback of a blank portion of tape continues or no signal (except when LINE is selected) is detected for over 5 minutes.

**Repeat step "a" and "b" on previous section to display SET UP VCR.**

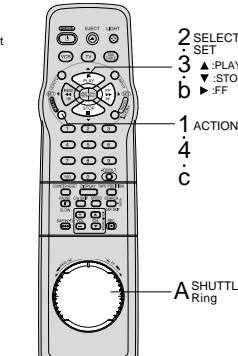


**Set ON or OFF.**

- 1) Press ▲▼ to select.
- 2) Press ► to set.

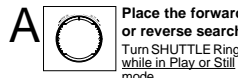


**Return to normal screen.**  
Press ACTION twice.



## Shuttle Variable Speed Search

The SHUTTLE Ring allows you to smoothly control the tape speed during special effects playback in both forward or reverse.



• The more you turn the Ring, the faster the search speed will be.

## Release the Shuttle mode.

Press a function button such as : PLAY, STOP, etc.  
• The VCR performs the function of the button pressed.

### Notes

- When the SHUTTLE Ring is turned more than half in Stop mode, normal Fast Forward or Rewind will begin.
- Some noise bars are normal during Shuttle operation.
- After 3 minutes in Still or Slow, the VCR will go into Stop mode.
- When the SHUTTLE Ring is released, the VCR goes into Still mode.