Location of Controls

Remote control Buttons

EJECT
POWER
VCR mode
VCR/ TV
PLAY
SELECT UP
REWIND/ SEARCH SET
ACTION
NUMBERED KEYS
COUNTER RESET
PAUSE/ SLOW
COMMERCIAL ADVANCE
SAP/ Hi-Fi
VOLUME UP/ DOWN

LIGHT
TV mode
DSS/ CABLE mode
INPUT
FAST FORWARD/ SEARCH SET
STOP
SELECT DOWN
PROGRAM/ VCR+
ADD/ DELETE
DISPLAY
TAPE POSITION
SEARCH/ MOVIE ADVANCE
SPEED
RECORD
CHANNEL UP/ DOWN
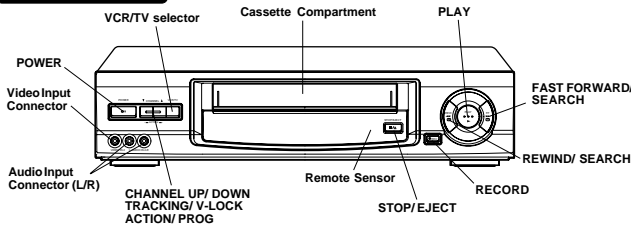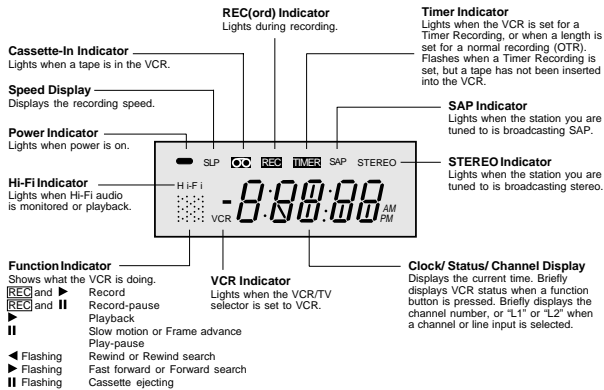TRACKING/ V-LOCK
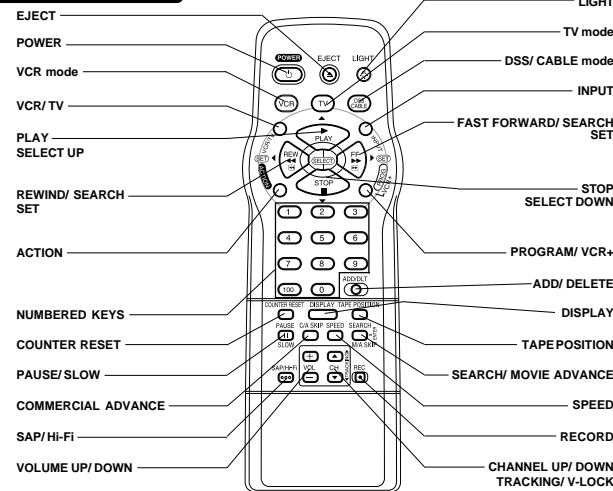
Light Tower Universal Remote Control

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.
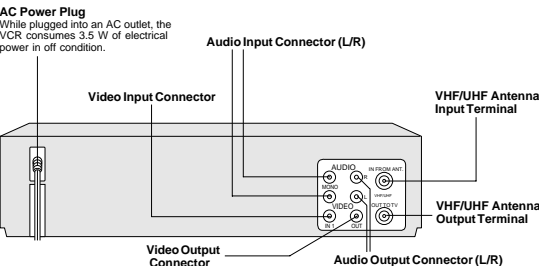If EJECT is pressed during recording, the VCR will not respond to the command.

Front View of the VCR

VCR/TV selector
Cassette Compartment
PLAY
POWER
Video Input Connector
FAST FORWARD/ SEARCH
Audio Input Connector (L/R)
CHANNEL UP/ DOWN TRACKING/ V-LOCK ACTION/ PROG
Remote Sensor
STOP/ EJECT
REWIND/ SEARCH
RECORD

Multi Function Display

Cassette-In Indicator
Lights when a tape is in the VCR.

Speed Display
Displays the recording speed.

Power Indicator
Lights when power is on.

Hi-Fi Indicator
Lights when Hi-Fi audio is monitored or playback.

REC(ord) Indicator
Lights during recording.

Timer Indicator
Lights when the VCR is set for a Timer Recording, or when a length is set for a normal recording (OTR). Flashes when a Timer Recording is set, but a tape has not been inserted into the VCR.

SAP Indicator
Lights when the station you are tuned to is broadcasting SAP.

STEREO Indicator
Lights when the station you are tuned to is broadcasting stereo.

SLP — REC TIMER SAP STEREO
Hi-Fi -8:88:88 AM PM
VCR

Function Indicator
Shows what the VCR is doing.
REC and ▶ Record
REC and II Record-pause
▶ Playback
II Slow motion or Frame advance Play-pause
◄ Flashing Rewind or Rewind search
▶ Flashing Fast forward or Forward search
II Flashing Cassette ejecting

VCR Indicator
Lights when the VCR/TV selector is set to VCR.

Clock/ Status/ Channel Display
Displays the current time. Briefly displays VCR status when a function button is pressed. Briefly displays the channel number, or "L1" or "L2" when a channel or a line input is selected.

Rear View of the VCR

AC Power Plug
While plugged into an AC outlet, the VCR consumes 3.5 W of electrical power in off condition.

Audio Input Connector (L/R)
Video Input Connector
VHF/UHF Antenna Input Terminal
Video Output Connector
Audio Output Connector (L/R)
VHF/UHF Antenna Output Terminal

One Time VCR Setup

When VCR is turned on the first time,
setup mode is entered automatically.

Process of Setup
Language ⇨ Channel ⇨ Clock

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

SELECT LANGUAGE
PUSH CH ▲ : ENGLISH
OPRIMIR 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

• Always tune TV to this channel to monitor the VCR.
• If you used audio/video jack connection, tune the TV to its video input.

Select the language.
▲ CH for English
▼ CH for Spanish (ESPAÑOL)
VCR/TV 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
PLEASE SET CLOCK BY PUSHING ACTION KEY

Press ACTION.

4
SET CLOCK
AUTO CLOCK SET
MANUAL
TIME ZONE ADJUST : 0
SELECT :▲ ▼ KEY
SET :▶ KEY
END :ACTION KEY

Select Clock Set type.
1) Press ▲▼ to select.
2) Press ▶ to display.
• If you select "MANUAL," do steps 2) ~ 4) on next section.

5
SELECT HOOKUP
CABLE/DSS BOX▶VCR▶TV
VCR▶CABLE/DSS BOX▶TV
VCR▶TV
SELECT :▲ ▼ KEY
SET :▶ KEY
END :ACTION KEY

Select hookup.
1) Press ▲▼ to select.
2) Press ▶ to set.

• If you selected "CABLE/ DSS BOX ▶ VCR ▶ TV," continue with step 6 and only the cable box output channel will be placed in memory. If not, go to step 8.

6
SELECT HOOKUP
CABLE/DSS BOX▶VCR▶TV
CABLE/DSS BOX OUTPUT CH
CH 01
SELECT :▲ ▼ KEY
SET :◄ ▶ KEY
END :ACTION KEY

Select cable box or DSS receiver output channel.
1) Press ▲▼ to select.
2) Press ▶ to enter.

• If necessary, refer to cable box manual.
• If you used Audio/ Video jack connection to cable box, set "VIDEO OUT".

1 POWER
2 VCR/TV
4 SELECT/ SET
5 ▲:PLAY
6 ▼:STOP
▶:FF
2 ACTION
3
2 CH ▲/ ▼

IMPORTANT NOTE FOR AUTO CLOCK SET
• Auto clock set is performed the first time the VCR is turned off each day. If used, a cable box must be left on and tuned to the PBS channel at the time VCR power is turned off if you want auto clock set to be done.
• If used, a DSS receiver must be turned off for auto clock set.
• If Cable Box or DSS receiver is connected to VCR via Audio/Video jacks, an RF coaxial cable must also be connected for auto clock set and channel auto set features to work.

7 **Turn on cable box and set it to PBS channel in your time zone.**
• If you use DSS receiver, it must be turned off.

8
CHANNEL/ CLOCK AUTO SET
CONNECT ANTENNA CABLE AND IF YOU USE A CABLE BOX, TUNE IT TO YOUR LOCAL PBS CH THEN. . .
PLEASE PUSH CH UP KEY

Start Channel Auto Set and Clock Auto Set.
Press CH ▲.
• The following messages appears:
"CH AUTO SET PROCEEDING"
"AUTO CLOCK SET PROCEEDING"

Case 1 (Setup completed)
1/ 4/2000 TUE 12:00PM
DST :ON
SETTING : CH 02
AUTO CLOCK SET
COMPLETED
END : PUSH CH UP KEY

Press CH ▲ to exit.

Case 2 (Setup incomplete)

AUTO CLOCK SET
IS INCOMPLETE
PUSH ACTION TO SET CLOCK

Clock Setup incomplete.
Set the clock manually.
1) Press ACTION.

SET CLOCK
1/--/-----:--
DST:ON
SELECT MONTH
SELECT :▲ ▼ KEY
SET :▶ KEY
END :ACTION KEY

2) Press ▲▼ to select month.
3) Press ▶ to set.
• Likewise, set date, year, time, DST (Daylight Saving Time).
To Make Corrections,
repeatedly press ◄▶ to move to error, then correct.

SET CLOCK
1/ 4/2000 TUE 12:00PM
DST:ON
SET COMPLETED
SET :◄ ▶ KEY
START : ACTION KEY

4) Press ACTION.
(Clock starts.)
• To exit this mode, press ACTION again.
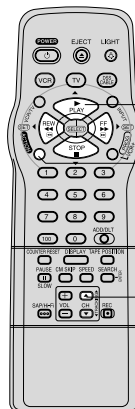
### Notes
• VCR calendar is accurately maintained to Dec. 31, 2096 11:59PM.
• Channel auto set selects normal TV or Cable channels depending on your VCR hookup.

SELECT/ SET
▲ :PLAY
▼ :STOP
◄ :REW
▶ :FF
ACTION
CH ▲

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.

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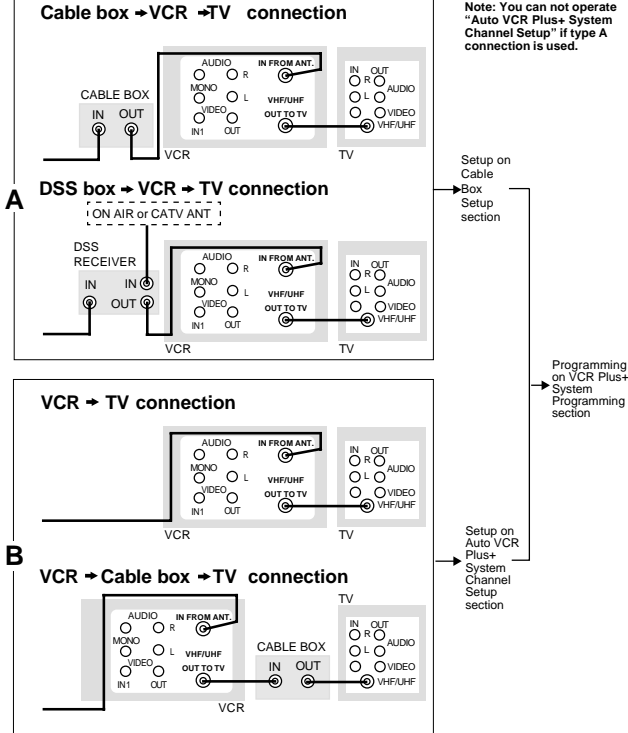To exit the menu, repeat above.

On Remote — On VCR
▲ : PLAY ◄ : REW
▼ : STOP ▶ : FF
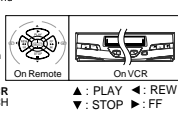
Timer Recording Using VCR Plus+® System

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
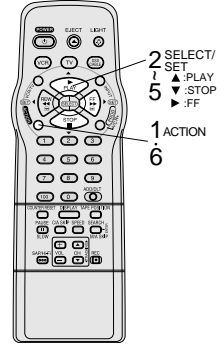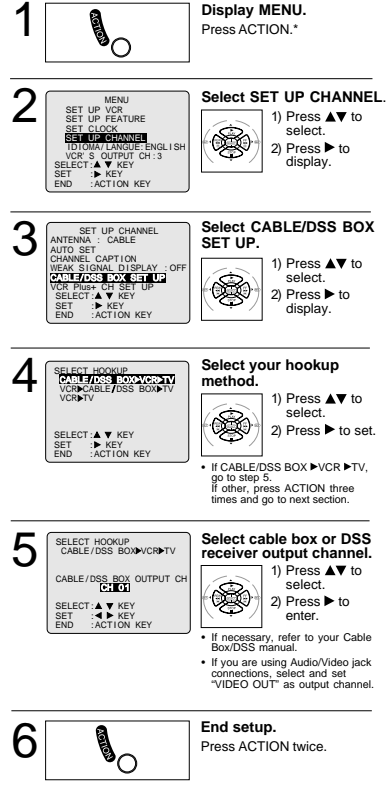
Connection	⇨	Setup	⇨	Programming

Find the type of connection you use from the following diagrams and proceed to the page number indicated to begin set up.

Note: You can not operate "Auto VCR Plus+ System Channel Setup" if type A connection is used.

A

Cable box → VCR → TV connection

DSS box → VCR → TV connection

Setup on Cable Box Setup section

B

VCR → TV connection

VCR → Cable box → TV connection

Setup on Auto VCR Plus+ System Channel Setup section

Programming on VCR Plus+ System Programming section

Cable Box Setup

Process of Recording

Connection	⇨	Setup	⇨	Programming

1
Display MENU.
Press ACTION.*

2
```
MENU
SET UP VCR
SET UP FEATURE
SET CLOCK
SET UP CHANNEL
1DIOMA/ LANGUE:ENGLISH
VCR`S OUTPUT CH : 3
SELECT:▲ ▼ KEY
SET    :▶ KEY
END    :ACTION KEY
```
Select SET UP CHANNEL.
1) Press ▲▼ to select.
2) Press ▶ to display.

3
```
SET UP CHANNEL
ANTENNA : CABLE
AUTO SET
CHANNEL CAPTION
WEAK SIGNAL DISPLAY : OFF
CABLE/DSS BOX SET UP
VCR Plus+ CH SET UP
SELECT:▲ ▼ KEY
SET    :▶ KEY
END    :ACTION KEY
```
Select CABLE/DSS BOX SET UP.
1) Press ▲▼ to select.
2) Press ▶ to display.

4
```
SELECT HOOKUP
CABLE/DSS BOX▶VCR▶TV
VCR▶CABLE/DSS BOX▶TV
VCR▶TV

SELECT:▲ ▼ KEY
SET    :▶ KEY
END    :ACTION KEY
```
Select your hookup method.
1) Press ▲▼ to select.
2) Press ▶ to set.

• If CABLE/DSS BOX ▶VCR ▶TV, go to step 5. If other, press ACTION three times and go to next section.

5
```
SELECT HOOKUP
CABLE/DSS BOX▶VCR▶TV

CABLE/DSS BOX OUTPUT CH
    CH 01

SELECT:▲ ▼ KEY
SET    :◀ ▶ KEY
END    :ACTION KEY
```
Select cable box or DSS receiver output channel.
1) Press ▲▼ to select.
2) Press ▶ to enter.

• If necessary, refer to your Cable Box/DSS manual.
• If you are using Audio/Video jack connections, select and set "VIDEO OUT" as output channel.

6
End setup.
Press ACTION twice.

2 SELECT/ SET
  ▲ :PLAY
5 ▼ :STOP
  ▶ :FF
1 ACTION
6

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

Timer Recording Using VCR Plus+® System (continued)

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.
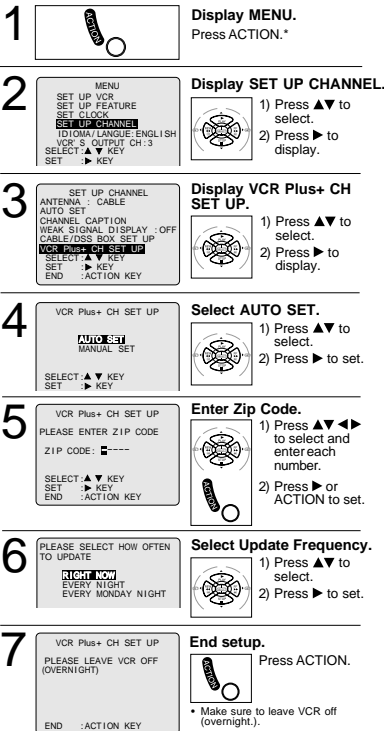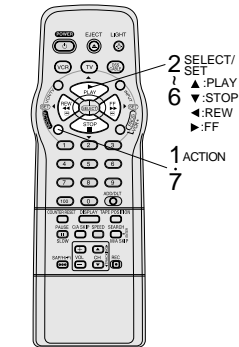
Process of Recording

Connection	⇨	Setup	⇨
		Programming	

Important Note
• The "One Time VCR Setup" section must be completed before the "Auto VCR Plus+ System Channel Setup" section can be done. If any part of the setup is not completed, a warning screen appears.
• If your VCR connection type changes from type A to B, repeat steps 1~4 of previous section and select VCR ▶ CABLE/DSS▶ TV before proceeding with these steps.
• Complete this page only if type B connection is used.

1
Display MENU.
Press ACTION.*

2
```
MENU
SET UP VCR
SET UP FEATURE
SET CLOCK
SET UP CHANNEL
1DIOMA/ LANGUE:ENGLISH
VCR`S OUTPUT CH :3
SELECT:▲ ▼ KEY
SET    :▶ KEY
```
Display SET UP CHANNEL.
1) Press ▲▼ to select.
2) Press ▶ to display.

3
```
SET UP CHANNEL
ANTENNA : CABLE
AUTO SET
CHANNEL CAPTION
WEAK SIGNAL DISPLAY : OFF
CABLE/DSS BOX SET UP
VCR Plus+ CH SET UP
SELECT:▲ ▼ KEY
SET    :▶ KEY
END    :ACTION KEY
```
Display VCR Plus+ CH SET UP.
1) Press ▲▼ to select.
2) Press ▶ to display.

4
```
VCR Plus+ CH SET UP

AUTO SET
MANUAL SET

SELECT:▲ ▼ KEY
SET    :▶ KEY
```
Select AUTO SET.
1) Press ▲▼ to select.
2) Press ▶ to set.

5
```
VCR Plus+ CH SET UP
PLEASE ENTER ZIP CODE

ZIP CODE: ▊----

SELECT:▲ ▼ KEY
SET    :▶ KEY
END    :ACTION KEY
```
Enter Zip Code.
1) Press ▲▼ ◀▶ to select and enter each number.
2) Press ▶ or ACTION to set.

6
```
PLEASE SELECT HOW OFTEN
TO UPDATE

RIGHT NOW
EVERY NIGHT
EVERY MONDAY NIGHT
```
Select Update Frequency.
1) Press ▲▼ to select.
2) Press ▶ to set.

7
```
VCR Plus+ CH SET UP
PLEASE LEAVE VCR OFF
(OVERNIGHT)

END    :ACTION KEY
```
End setup.
Press ACTION.
• Make sure to leave VCR off (overnight.).

2 SELECT/ SET
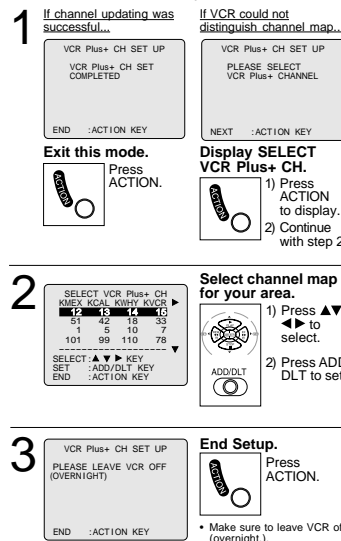 ▲ :PLAY
6 ▼ :STOP
  ◀ :REW
  ▶ :FF
1 ACTION
7

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.
• "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.**

Process of Recording

Connection	⇨	Setup	⇨
		Programming	

1
If channel updating was successful...
```
VCR Plus+ CH SET UP

VCR Plus+ CH SET UP
COMPLETED

END    :ACTION KEY
```
Exit this mode.
Press ACTION.

If VCR could not distinguish channel map...
```
VCR Plus+ CH SET UP

PLEASE SELECT
VCR Plus+ CHANNEL

NEXT    :ACTION KEY
```
Display SELECT VCR Plus+ CH.
1) Press ACTION to display.
2) Continue with step 2.

2
```
SELECT VCR Plus+ CH
KMEX KCAL KWHY KVCR
  12    13    14   15
   1    42    19    33
   5     5    10     7
 101    99  110    78
SELECT:▲ ▼ ▶ KEY
SET    :ADD/DLT KEY
END    :ACTION KEY
```
Select channel map for your area.
1) Press ▲▼ ◀▶ to select.
2) Press ADD/ DLT to set.

3
```
VCR Plus+ CH SET UP
PLEASE LEAVE VCR OFF
(OVERNIGHT)

END    :ACTION KEY
```
End setup.
Press ACTION.
• Make sure to leave VCR off (overnight.).

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.

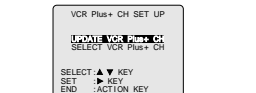**If Auto Setup fails, do "Manual VCR Plus+ System Channel Setup" section.**

Process of Recording

Connection	⇨	Setup	⇨
		Programming	

2 SELECT/ SET
  ▲ :PLAY
  ▼ :STOP
  ◀ :REW
  ▶ :FF
1 ACTION
3
2 ADD/ DELETE
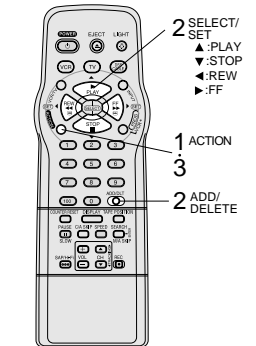
To Change or Update Auto VCR Plus+ System Channel Setup
(E.g. you selected the wrong channel map, or your zip code channel.)
a Do "Auto VCR Plus+ System Channel Setup (Part 1)" steps 1~4 on previous section.
```
VCR Plus+ CH SET UP

UPDATE VCR Plus+ CH
SELECT VCR Plus+ CH

SELECT:▲ ▼ KEY
SET    :▶ KEY
END    :ACTION KEY
```
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.

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 on previous page, repeat steps 1~4 of Cable Box Setup section and select VCR ▶ CABLE/DSS ▶ TV before proceeding with these steps.

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

2
```
   VCR Plus+ CH SET UP

      AUTO SET
      MANUAL SET

  SELECT:▲▼ KEY
  SET    :▶ KEY
  END    :ACTION KEY
```
Select MANUAL SET.
1) Press ▲▼ to select.
2) 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
```
   VCR Plus+ CH SET UP
  GUIDE CH  RECEIVE CH
  ▶ 01        --
    02        --
  SELECT:▲▼ KEY
  SET   :▶ KEY
  END   :ACTION KEY
```
```
   VCR Plus+ CH SET UP
  GUIDE CH  RECEIVE CH
  ▶ 01        ■■
    02        --
  SELECT:▲▼ KEY
  SET   :◀ KEY
  END   :ACTION KEY
```
Select VCR Plus+ channels.
1) Press ▶ to move cursor to right column.
2) Press ▲▼ to change RECEIVE CH number.
3) Press ◀ to set.
4) 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/DLT* to erase number.

4 **End setup.**
Press ACTION three times.

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.

Process of Recording
Connection ⇨ **Setup** ⇨
Programming

2 SELECT/SET
3 ▲ :PLAY / ▼ :STOP / ◀ :REW / ▶ :FF
4 ACTION
3 ADD/DELETE
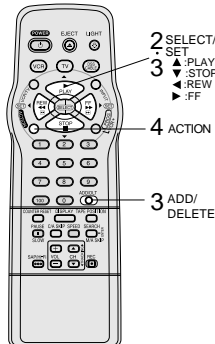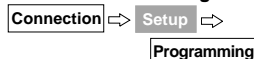
Channel Setup Preparations
In order to complete step 3 left, make a local channel list (see example below).
You will need the following:
- A line up of normal TV and/ or Cable stations and the channel number you receive them on.
- A list of Guide (PlusCode) channel numbers for the stations you receive 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.

VCR Plus+ System Programming

1
Display SET PROGRAM.
Press PROG/VCR+.*

2
```
      SET PROGRAM
  VCR Plus+ PROGRAMMING
  TIMER PROGRAMMING

  SELECT:▲▼ KEY
  SET    :▶ KEY
  END    :PROG KEY
```
Display VCR Plus+ screen.
1) Press ▲▼ to select.
2) Press ▶ to display.

3
```
   VCR Plus+ SYSTEM
  ENTER PLUSCODE NUMBER
        - - -
        / | \
  USING 0-9 KEYS
```
Enter PlusCode programming number.
1) Press Numbered keys.
2) Press PROG/VCR+ to lock in the program.

To make corrections,
press ◀ repeatedly to delete the PlusCode programming number.

```
   VCR Plus+ SYSTEM
      ONCE
    DAILY (MON-FRI)
    WEEKLY
  SELECT:▲▼ KEY
  SET    :▶ KEY
  END    :PROG KEY
```
Enter record frequency.
1) Press ▲▼ to select program type.
2) Press ▶ to set.

4
```
  DATE   START   STOP   CH
  8 SAT 10:00P 12:00P 02
  TODAY              ABC
  CATEGORY:N/A        SP
  SELECT CATEGORY
  SELECT :▲▼ KEY
  SET    :▶ KEY
  END    :PROG/ACTION KEY
```
Select Category.**
1) Press ▲▼ to change.
2) Press ▶ to set.

Change record speed.
Repeat 1) and 2).

5 **Make notes.**
- If not wanted, go to step 6.

6
```
  P DT START  STOP  CH SPD
  1 DAY  9:00A 12:00A 08  SP
  2  8 10:00P 12:00P 02  SP
  3
  4

  CANCEL :ADD/DLT KEY
  SELECT :1-8:▲▼ KEY
  ENTER  :▶ KEY
  END    :PROG/ACTION KEY
```
End programming.
1) Press PROG/VCR+ (or ACTION).
To cancel press ADD/DLT.
2) Press PROG/VCR+ (or ACTION) again to exit.

7
```
  ‒ TIMER ‒
```
Multi Function Display
Set timer.
POWER Press POWER off.

7 POWER
2 SELECT/SET
3 ▲ :PLAY / ▼ :STOP / ◀ :REW / ▶ :FF
1 PROG/VCR+
6 ACTION
3 NUMBERED keys
ADD/DELETE

** 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 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 differences in the way television stations broadcast. See Question and Answer section for answers to the most commonly asked questions about this feature.

COMMERCIAL ▶▶ADVANCE® Marking

When C/A RECORD: ON, 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 recording. Commercials are not erased from the tape.

1 **Display MENU.**
Press ACTION.*

2
```
         MENU
  SET UP VCR
  SET UP FEATURE
  SET CLOCK
  SET UP CHANNEL
  IDIOMA/LANGUE:ENGLISH
  VCR'S OUTPUT CH:3
  SELECT:▲▼ KEY
  SET   :▶ KEY
  END   :ACTION KEY
```
Display SET UP FEATURE.
1) Press ▲▼ to select.
2) Press ▶ to display.

3
```
   SET UP FEATURE
  TIMER PROGRAMMING
  SET UP COMMERCIAL ADV.

  SELECT:▲▼ KEY
  SET   :▶ KEY
  END   :ACTION KEY
```
Display SET UP COMMERCIAL ADV.
1) Press ▲▼ to select.
2) Press ▶ to display.

4
```
   SET UP COMMERCIAL ADV.
  C/A RECORD     : ON
  C/A PLAYBACK   : AUTO

  SELECT:▲▼ KEY
  SET   :▶ KEY
  END   :ACTION KEY
```
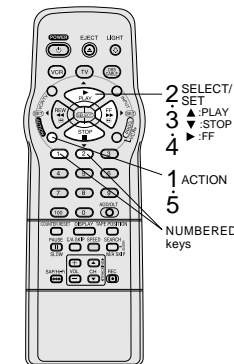**Set ON or OFF.**
1) Press ▲▼ to select.
2) Press ▶ to set.

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

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

```
  THE VCR IS WAITING TO
  MARK COMMERCIALS IN THE
  PROGRAM YOU RECORDED.


  MARKING
  NOW   : PUSH 1 KEY
  LATER : PUSH 2 KEY
  CANCEL : PUSH ACTION KEY
```
When STOP is pressed during normal recording, Select One of a) or b) or c).
a) Press 1 key to mark the recording now.
   "NOW MARKING COMMERCIALS" appears.
b) Press 2 key to mark the recording later (after the power has been turned off).
- If the tape is rewound and another recording started before the power is turned off, commercials may not be marked correctly.
c) 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.

Check list before you begin.
☐ All connections are made.
☐ One time Setup completed.
☐ VCR is plugged in.
☐ TV is turned on and set to CH3, 4 or Video on TV.

2 SELECT/SET
3 ▲ :PLAY / ▼ :STOP / ▶ :FF
4
1 ACTION
5 NUMBERED keys

COMMERCIAL ▶▶ADVANCE® Playback

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

PLAY
FF

1 **Display MENU.**
Press ACTION.*

2
```
         MENU
  SET UP VCR
  SET UP FEATURE
  SET CLOCK
  SET UP CHANNEL
  IDIOMA/LANGUE:ENGLISH
  VCR'S OUTPUT CH:3
  SELECT:▲▼ KEY
  SET   :▶ KEY
  END   :ACTION KEY
```
Display SET UP FEATURE.
1) Press ▲▼ to select.
2) Press ▶ to set.

3
```
   SET UP FEATURE
  TIMER PROGRAMMING
  SET UP COMMERCIAL ADV.

  SELECT:▲▼ KEY
  SET   :▶ KEY
  END   :ACTION KEY
```
Display SET UP COMMERCIAL ADV.
1) Press ▲▼ to select.
2) Press ▶ to set.

4
```
   SET UP COMMERCIAL ADV.
  C/A RECORD     : ON
  C/A PLAYBACK   : AUTO

  SELECT:▲▼ KEY
  SET   :▶ KEY
  END   :ACTION KEY
```
Set AUTO or MANUAL.
1) Press ▲▼ to select.
2) Press ▶ to set.

2 SELECT/SET
3 ▲ :PLAY / ▼ :STOP / ▶ :FF
4
PLAY
FF
1 ACTION
5
C/A SKIP
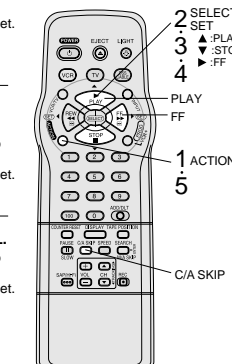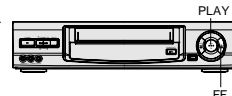
AUTO VCR will automatically advance through marked commercial blocks recorded on the tape and then resume playback.

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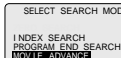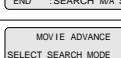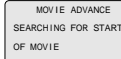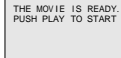
COMMERCIAL ▶▶ADVANCE® and MOVIE ▶▶ADVANCE® are registered trademarks of SRT, Inc. A Jerry Iggulden invention licensed in association with Arthur D. Little Enterprises, Inc.
U.S.Pat. No. 5,333,091; 5,692,093; 5,696,866 other patents pending

5 **Return to normal screen.**
Press ACTION three times.

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.

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 playback 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 COMMERCIAL▸▸ADVANCE® work in all recording speeds?	Yes. COMMERCIAL▸▸ADVANCE® works in SP, LP, and SLP.
Does the VCR advance through commercials each time I playback tapes which were recorded using COMMERCIAL▸▸ADVANCE®?	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 COMMERCIAL▸▸ADVANCE® recordings in non-COMMERCIAL▸▸ADVANCE® VCRs?	Yes. COMMERCIAL▸▸ADVANCE® marked recordings will play in non-COMMERCIAL▸▸ADVANCE® 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.

Additional Notes:
- Because of the various ways in which commercials are broadcast, the VCR may not be able to recognize all commercials.
- 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.
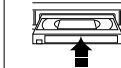
COMMERCIAL▸▸ADVANCE® and MOVIE▸▸ADVANCE® are registered trademarks of SRT, Inc.
A Jerry Iggulden invention licensed in association with Arthur D. Little Enterprises, Inc.

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

MOVIE▸▸ADVANCE®

MOVIE▸▸ADVANCE® helps you locate certain parts of prerecorded 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 cassette recorded in SP speed with the record tab removed.

☑ Check list before you begin.
- ☐ All connections are made.
- ☐ One time Setup completed.
- ☐ VCR is plugged in.
- ☐ TV is turned on and set to CH3, 4 or Video on TV.

1 Insert a cassette without record tab.

2 Display "SELECT SEARCH MODE."
1) Press SEARCH/ M/A SKIP.*

3 SELECT SEARCH MODE
INDEX SEARCH
PROGRAM END SEARCH
MOVIE ADVANCE
SELECT :▲▼ KEY
SET :► KEY
END :SEARCH M/A SKIP

Display MOVIE ADVANCE.
1) Press ▲▼ to select.
2) Press ► to set.

4 MOVIE ADVANCE
SELECT SEARCH MODE
GO TO START OF MOVIE
GO TO PREVIEW
SELECT :▲▼ KEY
SET :► KEY
END :SEARCH M/A SKIP

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 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.

5 MOVIE ADVANCE
SEARCHING FOR START
OF MOVIE
CANCEL :STOP KEY

Start searching.
Press ► .
- To cancel, press STOP.

When the movie is found...

6 MOVIE ADVANCE
THE MOVIE IS READY.
PUSH PLAY TO START
CANCEL :STOP KEY

Start playback.
Press PLAY.
- To cancel, press STOP.
- The display will time out after 3 minutes and the VCR will enter the Stop mode.
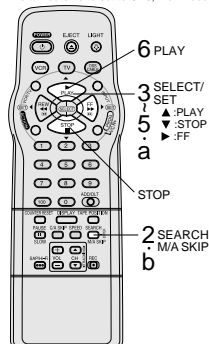
To Search for Preview.
You can override the operation of MOVIE▸▸ADVANCE® SEARCH FOR PREVIEWS mode by pressing SEARCH/ M/A SKIP during tape searching. MOVIE▸▸ADVANCE® works by searching the tape past each preview and then reversing back to the start of the detected preview. While the tape is reversing 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.

When a preview is detected, VCR will start playback.

b Start next preview searching.
Press SEARCH/ M/A SKIP.
- To cancel, press STOP.

Remote labels: PLAY, SELECT/SET ▲:PLAY ▼:STOP ►:FF, STOP, SEARCH/M/A SKIP

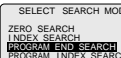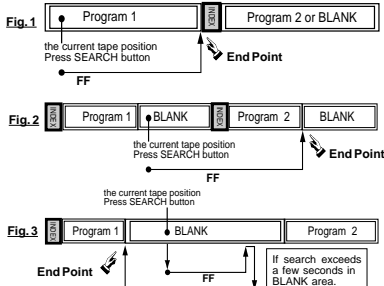## Search System

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.
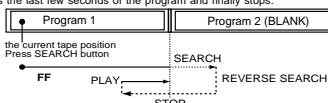
1 Display SELECT SEARCH MODE in Stop or Play mode.
Press SEARCH/ M/A SKIP.*

2 SELECT SEARCH MODE
ZERO SEARCH
INDEX SEARCH
PROGRAM END SEARCH
PROGRAM INDEX SEARCH
SELECT :▲▼ KEY
SET :► KEY
END :SEARCH M/A SKIP

Select PROGRAM END SEARCH.
1) Press ▲▼ to select.
2) Press ► to start search.

Examples of **Program End Search** operation.

Fig.1 Program 1 | Program 2 or BLANK
the current tape position
Press SEARCH button
End Point
FF

Fig.2 Program 1 | BLANK | Program 2 | BLANK
the current tape position
Press SEARCH button
End Point
FF
the current tape position
Press SEARCH button

Fig.3 Program 1 | BLANK | Program 2
End Point
FF
If search exceeds a few seconds in BLANK area.

If Program End Point ( ) 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.
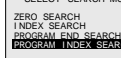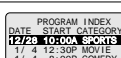
Program 1 | Program 2 (BLANK)
the current tape position
Press SEARCH button
SEARCH
FF PLAY REVERSE SEARCH
STOP

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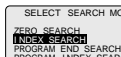- To cancel Program End Search, press PLAY or STOP.

2 SELECT/SET ▲:PLAY ▼:STOP ►:FF
1 SEARCH M/A SKIP

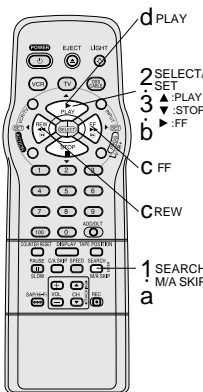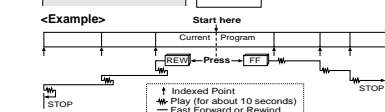### Program Index Search (For timer recordings only)

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.**

1 Display SELECT SEARCH MODE in Stop or Play mode.
Press SEARCH/ M/A SKIP.*

2 SELECT SEARCH MODE
ZERO SEARCH
INDEX SEARCH
PROGRAM END SEARCH
PROGRAM INDEX SEARCH
SELECT :▲▼ KEY
SET :► KEY
END :SEARCH M/A SKIP

Display PROGRAM INDEX.
1) Press ▲▼ to select.
2) Press ► to display.

3 PROGRAM INDEX
DATE START CATEGORY CH
12/28 10:00A SPORTS ABCD
1/ 4 12:30P MOVIE NBC
1/ 4 8:00P COMEDY CBC
1/ 7 3:00P MUSIC NBC
SELECT :▲▼ KEY
SEARCH :► KEY
END :SEARCH M/A SKIP

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).

a Display SELECT SEARCH MODE in Stop or Play mode.
Press SEARCH/ M/A SKIP.*

b SELECT SEARCH MODE
ZERO SEARCH
INDEX SEARCH
PROGRAM END SEARCH
PROGRAM INDEX SEARCH
SELECT :▲▼ KEY
SET :► KEY
END :SEARCH M/A SKIP

Select INDEX SEARCH.
1) Press ▲▼ to select.
2) Press ► to display.
- This screen appears only if there are timer recordings.

c INDEX

Start scan.
Press FF or REW.

d AUTO INDEX SEARCH

Cancel scan, start playback.
Press PLAY.
- To stop, press STOP.

<Example> Start here

Current | Program
REW ◄─ Press ─► FF
STOP STOP
↑ Indexed Point
Play (for about 10 seconds)
Fast Forward or Rewind

Remote labels: d PLAY, 2 SELECT/SET, 3 ▲:PLAY ▼:STOP ►:FF, b, C FF, C REW, 1 SEARCH M/A SKIP, a

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 SEARCH/ M/A SKIP

Display SELECT SEARCH MODE in Stop or Play mode.
Press SEARCH/ M/A SKIP.*

2
```
SELECT SEARCH MODE
ZERO SEARCH
INDEX SEARCH
PROGRAM END SEARCH
PROGRAM INDEX SEARCH

SELECT :▲▼ KEY
SET    :▶ KEY
END    :SEARCH M/A SKIP
```
Select INDEX SEARCH.
1) Press ▲▼ to select.
2) Press ▶ to display.
• This screen appears only if there are timer recordings.

3
```
INDEX
□□ □□ □□
□□ □□ □□
□□ □□ □□
```
Select the recording number.
Press NUMBERED keys.
• To calculate number, see below.

4
```
INDEX        04

INDEX SEARCH 04
```
Start search.
Press FF or REW.
• When search is finished, playback begins.
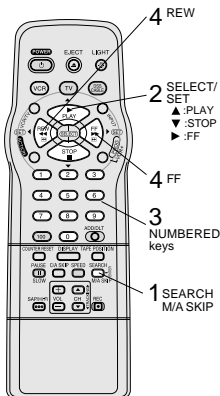
■ To Calculate Index Number

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

1	2	3	4	5	6	7

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

1	2	3	4	5	6	7
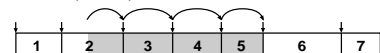
NOTE: ↓ indicates start points of each recording.

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

Remote control labels: 4 REW, 2 SELECT/SET ▲:PLAY ▼:STOP ▶:FF, 4 FF, 3 NUMBERED keys, 1 SEARCH M/A SKIP

Repeat Play

Set to see a recording over and over.

1 **Display MENU.**
Press ACTION.*

2
```
MENU
SET UP VCR
SET UP FEATURE
SET CLOCK
SET UP CHANNEL
IDIOMA/ LANGUE:ENGLISH
VCR'S OUTPUT CH:3
SELECT:▲▼ KEY
SET    :▶ KEY
```
Display SET UP VCR.
1) Press ▲▼ to select.
2) Press ▶ to display.

3
```
SET UP VCR
REPEAT PLAY     : OFF
TIME STAMP      : ON
REMOTE WARNING  : ON
AUTO SHUT-OFF   : ON
SELECT:▲▼ KEY
SET    :▶ KEY
END    :ACTION KEY
```
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.

Remote control labels: 2 SELECT/SET, 3 ▲:PLAY ▼:STOP ▶:FF, e, 1 ACTION, 4, a DISPLAY, b COUNTER RESET, d SEARCH M/A SKIP
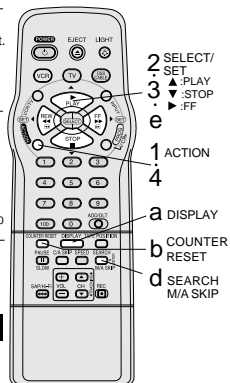
Zero Search

To quickly return to specific tape counter location.

a DISPLAY
Display Counter.
Press DISPLAY during playback.

b
```
PLAY    12:00AM
        0:00:00
               SP
```
Reset to "0:00:00."
Press COUNTER RESET at the desired position.

c **Continue Recording, playback etc.**

d SEARCH/ M/A SKIP
Display SELECT SEARCH MODE in Stop mode.
Press SEARCH/ M/A SKIP.*

e
```
SELECT SEARCH MODE
ZERO SEARCH
INDEX SEARCH
PROGRAM END SEARCH
PROGRAM INDEX SEARCH

SELECT:▲▼ KEY
SET    :▶ KEY
END    :SEARCH M/A SKIP
```
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
```
MENU
SET UP VCR
SET UP FEATURE
SET CLOCK
SET UP CHANNEL
IDIOMA/ LANGUE:ENGLISH
VCR'S OUTPUT CH:3
SELECT:▲▼ KEY
SET    :▶ KEY
END    :ACTION KEY
```
Display SET UP CHANNEL.
1) Press ▲▼ to select.
2) Press ▶ to display.

3
```
SET UP CHANNEL
ANTENNA : CABLE
AUTO SET
CHANNEL CAPTION
WEAK SIGNAL DISPLAY :OFF
CABLE/DSS BOX SET UP
VCR Plus+ CH SET UP
SELECT:▲▼ KEY
SET    :▶ KEY
END    :ACTION KEY
```
Display CHANNEL CAPTION.
1) Press ▲▼ to select.
2) Press ▶ to display.

4
```
CHANNEL CAPTION
PRESET CAPTION
MANUAL CAPTION

SELECT:▲▼ KEY
SET    :▶ KEY
END    :ACTION KEY
```
Display PRESET CAPTION.
1) Press ▲▼ to select.
2) Press ▶ to display.
• To create your own captions, go to "Manual Caption."

5
```
PRESET CAPTION
ABC   40  PBS  60
CBS   --  CNN  25
FOX   33  ESPN 51
NBC   --  HBO  --
CLEAR :ADD/DLT KEY
SELECT:▲▼ KEY
SET    :◀ KEY
END    :ACTION KEY
```
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.

Remote control labels: SELECT/SET, 2~5 ▲:PLAY ▼:STOP ▶:FF, 1 ACTION, 6 ADD/ DLT
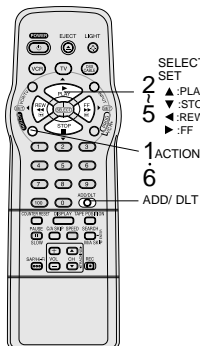
Manual Caption

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

2
```
CHANNEL CAPTION
PRESET CAPTION
MANUAL CAPTION

SELECT:▲▼ KEY
SET    :▶ KEY
END    :ACTION KEY
```
Display MANUAL CAPTION.
1) Press ▲▼ to select.
2) Press ▶ to display.

3
```
MANUAL CAPTION
CH NUMBER   CAPTION
   02       ----

SELECT:▲▼ KEY
SET    :▶ KEY
END    :ACTION KEY
```
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
```
MANUAL CAPTION
CH NUMBER   CAPTION
   02       A---

CLEAR :ADD/DLT KEY
SELECT:▲▼ KEY
SET    :◀ KEY
```
Enter CAPTION.
1) Press ▲▼ to select.
2) Press ▶ to enter.
• Characters change in following order.

→A↔B↔C⋯↔Z↔BLANK↔ —↔&↔
↔9◀⋯↔2↔1↔0↔/↔*↔

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.

Remote control labels: 2 SELECT/SET, 3 ▲:PLAY ▼:STOP, 3 ◀:REW, 4 ▶:FF, 5 ACTION, ADD/ DLT
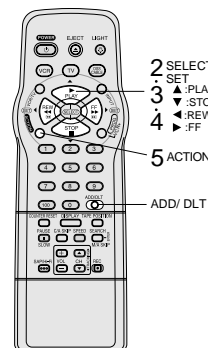
Special VCR Features (continued)

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."

1 **Display MENU.**
Press ACTION.*

2
```
          MENU
SET UP VCR
SET UP FEATURE
SET CLOCK
SET UP CHANNEL
IDIOMA/LANGUE:ENGLISH
VCR'S OUTPUT CH:3
SELECT:▲▼ KEY
SET    :► KEY
END    :ACTION KEY
```
Display SET UP VCR.
1) Press ▲▼ to select.
2) Press ► to display.

3
```
       SET UP VCR
REPEAT PLAY        : OFF
TIME STAMP         : ON
REMOTE WARNING     : ON
AUTO SHUT-OFF      : ON
SELECT:▲▼ KEY
SET    :► KEY
END    :ACTION KEY
```
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.
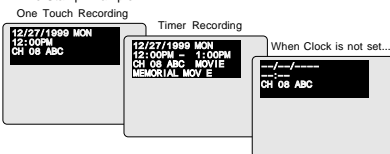
4 **Return to normal screen.**
Press ACTION twice.

<Time Stamp Example>

One Touch Recording
```
12/27/1999 MON
12:00PM
CH 08 ABC
```

Timer Recording
```
12/27/1999 MON
12:00PM ~ 1:00PM
CH 08 ABC  MOVIE
MEMORIAL MOV E
```

When Clock is not set...
```
--/--/----
--:--
CH 08 ABC
```

SELECT/SET
2 ▲:PLAY
3 ▼:STOP
  ►:FF

1 ACTION
4

Changing Time Stamp Data

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

1 PLAY
Display Time Stamp Data.
1) Insert cassette with record tab.
2) Press PLAY.

PLAY
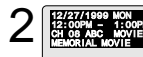
2
```
12/27/1999 MON
12:00PM ~  1:00PM
CH 08 ABC  MOVIE
MEMORIAL MOVIE
```
Display TIME STAMP EDIT.
Press PROG/VCR+ while the data is displayed in Playback mode.
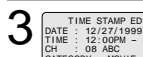
3
```
      TIME STAMP EDIT
DATE  : 12/27/1999 MON
TIME  : 12:00PM ~  1:00PM
CH    : 08 ABC
CATEGORY : MOVIE
NOTES :▒EMORIAL MOVIE----
----------------
SELECT:▲▼ KEY
SET   :◄► KEY
END   :PROG KEY
```
Change Time Stamp Data.
1) Press ▲▼ to select.
2) Press ► to enter and continue.

• Characters in NOTES will change in the following order.

→ A↔B↔C↔···↔Z↔BLANK↔─↔&↔
└9↔···↔2↔1↔0↔/↔+↔!↔

3) Repeat 1) and 2) as needed.

To make corrections,
Press ◄► to move to the incorrect entry, then press ▲▼ to make the correction.

4 `NOW WRITING TIME STAMP`
Write the new data.
Press PROG/VCR+.

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

PLAY
1 PLAY

3 SELECT/SET
▲:PLAY
▼:STOP
◄:REW
►:FF

2 PROG/VCR+
4
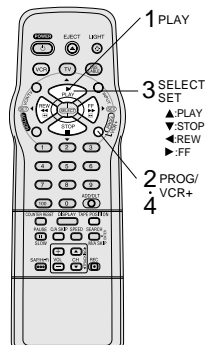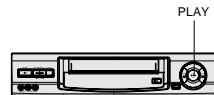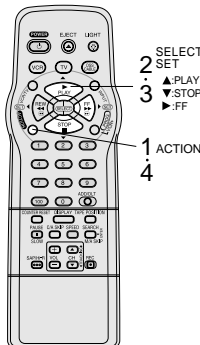
Special VCR Features (continued)

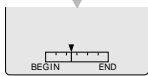## Tape Position Display Feature

To find out the present tape position.
Tape position cannot be found for C-Cassette type and tape of less than 60 minutes.

1 TAPE POSITION
Detect Tape Position.
Press TAPE POSITION.

`DETECTING TAPE POSITION`

• "DETECTING TAPE POSITION" only appears the first time a cassette is inserted.
• It takes several seconds for correct indication to appear.

```
       ▼
BEGIN      END
```
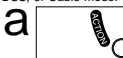
• The present tape position indication is displayed.

2 TAPE POSITION
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.
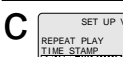
a **Display MENU.**
Press ACTION.

b
```
          MENU
SET UP VCR
SET UP FEATURE
SET CLOCK
SET UP CHANNEL
IDIOMA/LANGUE:ENGLISH
VCR'S OUTPUT CH:3
SELECT:▲▼ KEY
SET    :► KEY
END    :ACTION KEY
```
Display SET UP VCR.
1) Press ▲▼ to select.
2) Press ► to display.

c
```
       SET UP VCR
REPEAT PLAY        : OFF
TIME STAMP         : ON
REMOTE WARNING     : ON
AUTO SHUT-OFF      : ON
SELECT:▲▼ KEY
SET    :► KEY
END    :ACTION KEY
```
Set ON or OFF.
1) Press ▲▼ to select.
2) Press ► to set.

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

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

SELECT/SET
b ▲:PLAY
c ▼:STOP
  ►:FF

a ACTION
d

1 TAPE POSITION
2
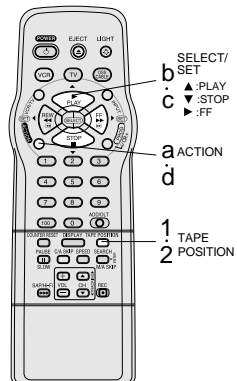
VCR Lock Feature

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

A ●REC
Press REC in Stop mode.

`VCR LOCK ACTIVATED`

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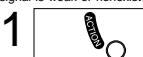
`VCR LOCK OFF`

To turn off:
Repeat above.

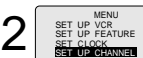• VCR Lock is canceled automatically after 24 hours if clock is set.

A REC

Weak Signal Display ON/OFF Feature

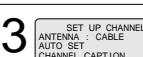When "ON" is selected, picture is displayed even when broadcast signal is weak or nonexistent.

1 **Display MENU.**
Press ACTION.*

2
```
          MENU
SET UP VCR
SET UP FEATURE
SET CLOCK
SET UP CHANNEL
IDIOMA/LANGUE:ENGLISH
VCR'S OUTPUT CH:3
SELECT:▲▼ KEY
SET    :► KEY
END    :ACTION KEY
```
Display SET UP CHANNEL.
1) Press ▲▼ to select.
2) Press ► to display.

3
```
     SET UP CHANNEL
ANTENNA   : CABLE
AUTO SET
CHANNEL CAPTION
WEAK SIGNAL DISPLAY : OFF
CABLE/DSS BOX SET UP
VCR Plus+ CH SET UP
SELECT:▲▼ KEY
SET    :► KEY
END    :ACTION KEY
```
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.

4 **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.

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

b
```
       SET UP VCR
REPEAT PLAY        : OFF
TIME STAMP         : ON
REMOTE WARNING     : ON
AUTO SHUT-OFF      : ON
SELECT:▲▼ KEY
SET    :► KEY
END    :ACTION KEY
```
Set ON or OFF.
1) Press ▲▼ to select.
2) Press ► to set.

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

2 SELECT/SET
3 ▲:PLAY
  ▼:STOP
b ►:FF

1 ACTION
4
c