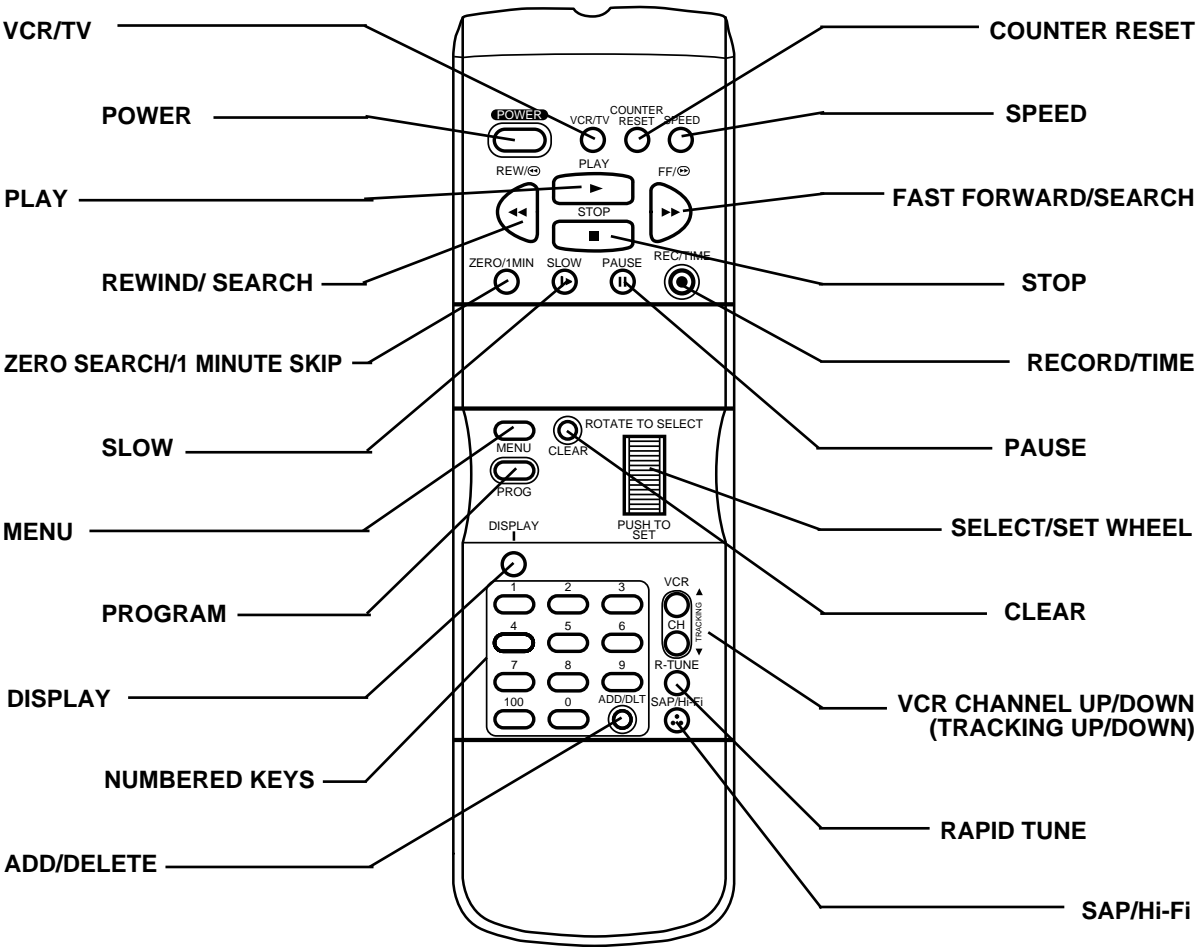
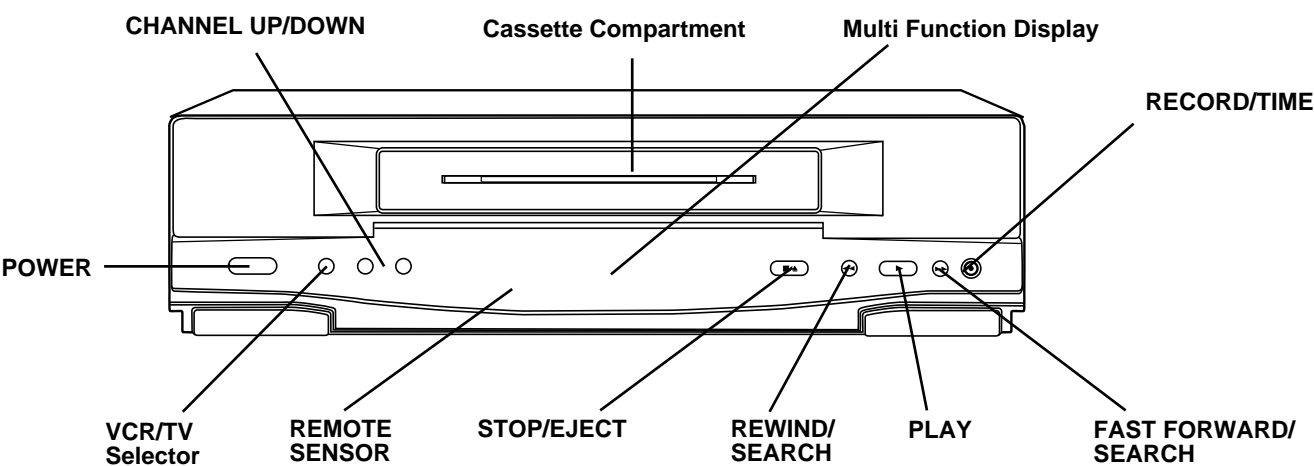


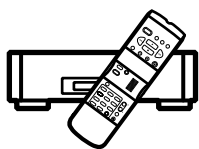
# Index of Controls

## Remote Control Button



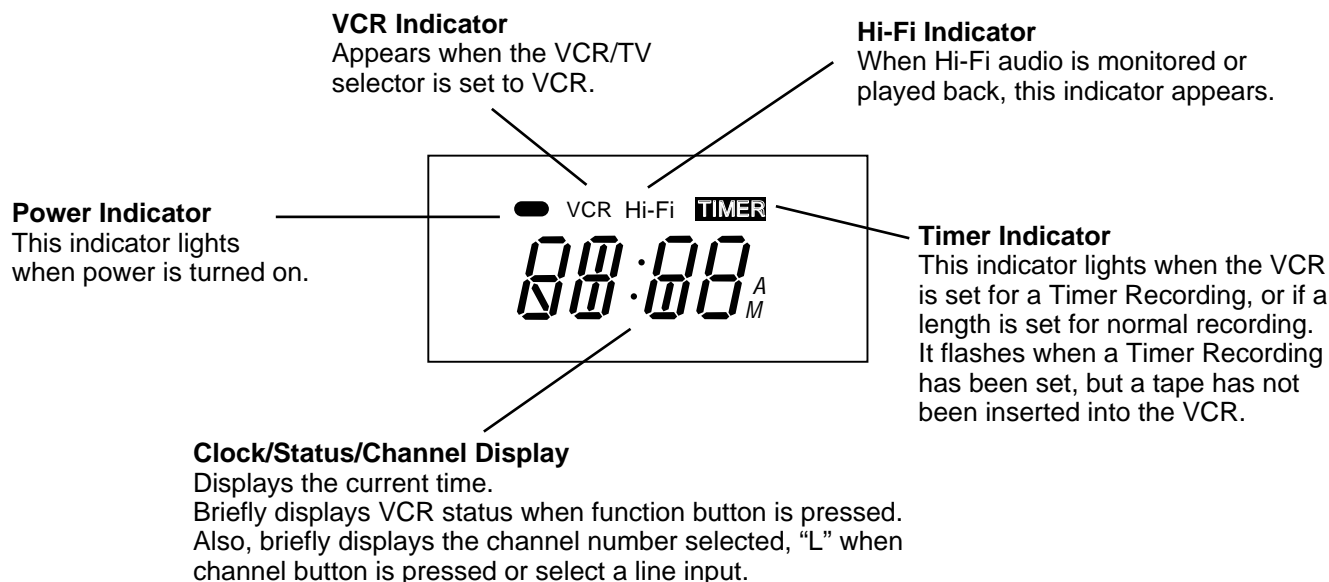
## Front View of the VCR



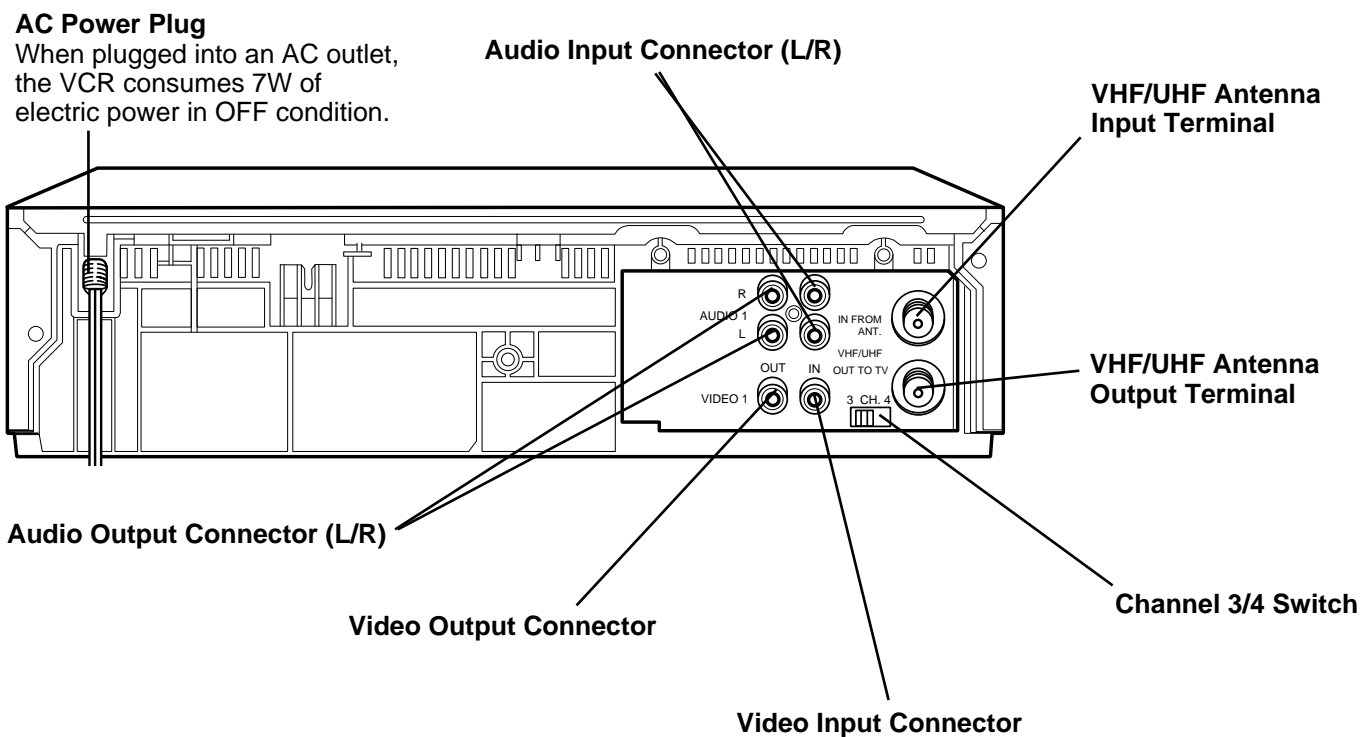


# Index of Controls

## Multi Function Display



## Rear View of the VCR





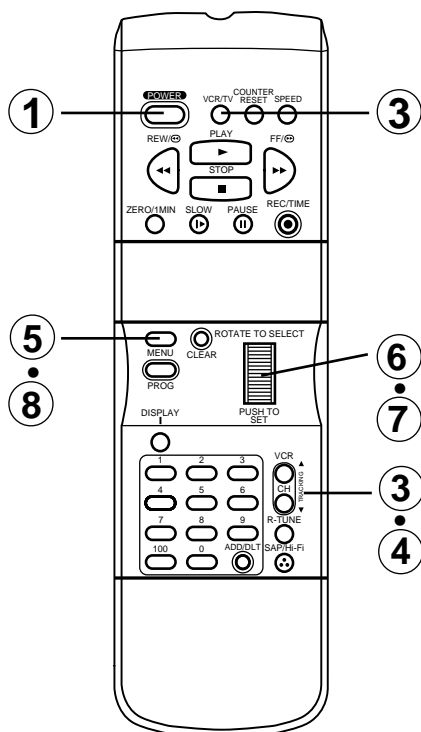
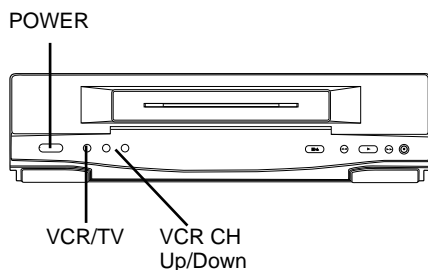
# One Time VCR Setup

When the VCR power is first turned on, the language select and channel auto set screen appear automatically followed by a prompt to set the clock.



## Check list before you begin.

- ☐ All TV and VCR connections are made.



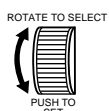
## Using the Select/Set Wheel

There are basically two types of Wheel operation.

- Selecting items from an on-screen display.
- Entering information, such as setting the clock.

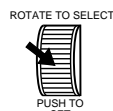
### OPERATION

① Rotate (up or down)



to make selection

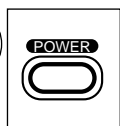
② Push (like a button)



to enter selection

## To Set Language, Channel and Clock

1

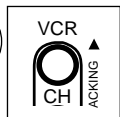


Turn TV on and VCR on.

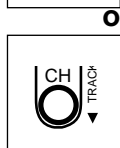
2

TV is set to VCR channel (the Same one you set on the back of the VCR CH3 or CH4.)

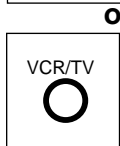
3



Push VCR CH ▲ for English on-screen displays.



Push VCR CH ▼ for Spanish on-screen displays



Push VCR/TV for French on-screen displays.

### SELECT LANGUAGE

PUSH VCR CH ▲: ENGLISH  
PULSE VCR CH ▼: ESPAÑOL  
APP. VCR/TV : FRANÇAIS

**If you set the wrong language,**  
see the "Reset all VCR Memory Functions" section.

- You can also set by using the same buttons on the VCR.

This screen appears a few seconds later. →

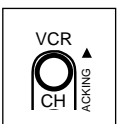
- If you use a cable box, it must be left on for auto channel set.

### CHANNEL 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

4



Push VCR CH ▲ to start Channel Auto Set.

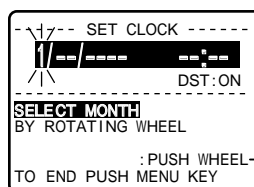
- The following on-screen displays appear in sequence:  
"CH AUTO SET COMPLETED"  
"PLEASE SET CLOCK BY PUSHING MENU KEY"

5

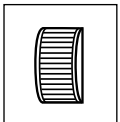


Push MENU to display the SET CLOCK screen.

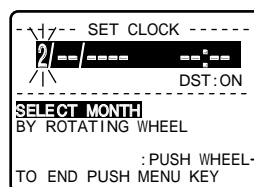
- Make entries within 5 minutes, or the VCR exits the Set Clock screen.



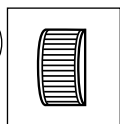
6



Rotate and push the WHEEL to select and set the MONTH.



7



Rotate and push the WHEEL to set remaining items at right.

- The day of the week automatically appears.

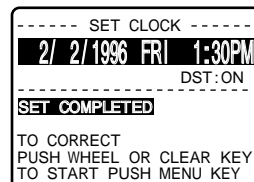
### Remaining items to be set:

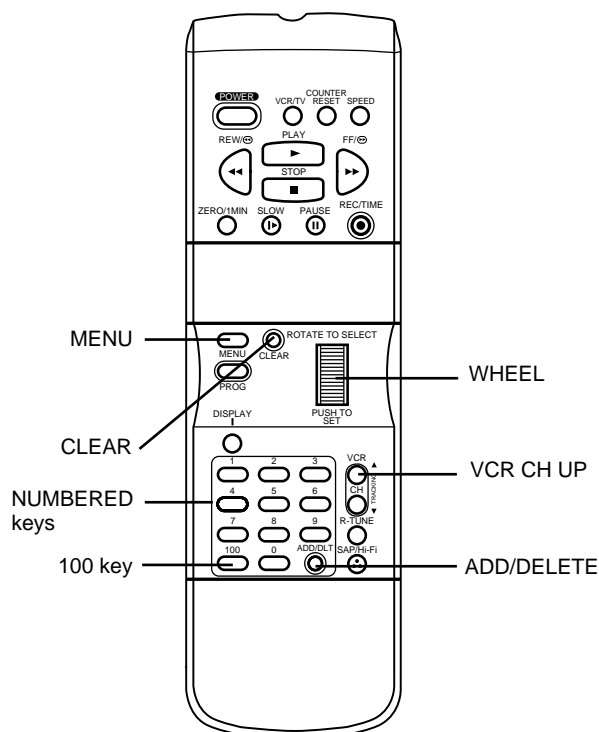
- Date
- Year
- Time
- D.S.T. (Daylight Saving Time)

8



Push MENU twice to start the clock and exit this mode.

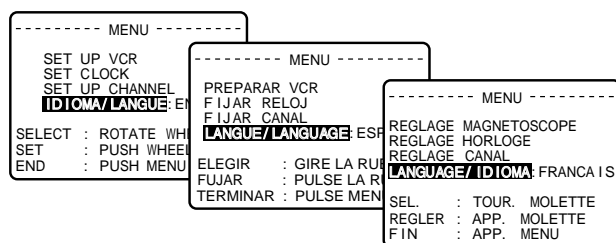




## To Change On Screen Display Language

- 1 Push MENU to display the menu.
- 2 Rotate the Wheel to select the language selection item.  
(English: LANGUAGE, Spanish: IDIOMA, French: LANGUE).
- 3 Push the Wheel to change the language.
  - Each Push will change the language in the order shown.

English → Spanish → French



- 4 Push MENU to exit this mode.

## To Replace Channels in Memory

Example, if you have cable installed, etc.

- 1 Push MENU to display the menu.
- 2 Rotate and push the Wheel to select SET UP CHANNEL from menu, and then push to set your antenna system (TV or CATV).
- 3 Rotate and push the Wheel to select AUTO SET.
- 4 Push VCR CH ▲ to start Channel Auto Set.
  - To exit this mode, push MENU twice.

--- SET UP CHANNEL ---  
ANTENNA SYSTEM : CATV  
AUTO SET

SELECT : ROTATE WHEEL  
SET : PUSH WHEEL  
END : PUSH MENU KEY

CHANNEL 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

## To Set or Reset the Clock

In case the clock is wrong, or a power failure occurred.

- 1 Push MENU to display the menu.
- 2 Rotate and push the Wheel to select SET CLOCK from menu, and then to set the time and date.
- 3 Push MENU twice to start the clock and exit this mode.

----- MENU -----

SET UP VCR  
SET CLOCK  
SET UP CHANNEL  
IDIOMA/LANGUE: ENGLISH

SELECT : ROTATE WHEEL  
SET : PUSH WHEEL  
END : PUSH MENU KEY

SET CLOCK

2/ 2/ 1996 FRI 1:30PM  
DST: ON

SELECT MONTH  
BY ROTATING WHEEL

← PUSH CLEAR: PUSH WHEEL →  
TO START PUSH MENU KEY

## To Add or Delete a Channel

- 1 Select a channel using the NUMBERED keys.
- 2 Push ADD/DLT to add or delete the channel.

CHANNEL 08 DELETED  
↓ or  
ADDED

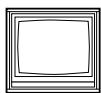
- To select a deleted channel, use the NUMBERED keys on the remote control. Deleted channels will flash in the Multi Function Display on the VCR when selected.

## When Using the 100 key

When selecting CATV channels 100 to 125 with the NUMBERED keys, first push the 100 key and then enter the remaining two digits.  
For example, to select channel 125:  
Push NUMBERED keys 100, then 2, then 5.



- This VCR will accurately maintain its calendar up to Dec. 31, 2014, 11:59PM.
- Normal TV or Cable channels are automatically selected and placed in memory depending on how your VCR is hooked up.
- By Pushing the Wheel or CLEAR button repeatedly, you can skip forward or backward over correct entries and go directly to a specific item.



# On Screen Displays (OSD)

## Function & Channel Display

Whenever a function button is pushed (PLAY, FF, etc.) or the channel is changed, a 4 second OSD will appear first in large and then small characters.

FF

## Menu Screen

- 1 Push MENU to display the menu.
- 2 Rotate and push the wheel to make your selection.

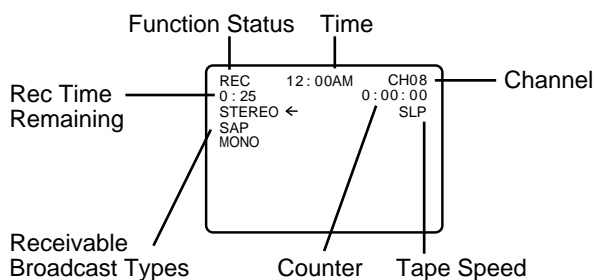
```
----- MENU -----
SET UP VCR
SET CLOCK
SET UP CHANNEL
ID10MA/LANGUE:ENGLISH

SELECT : ROTATE WHEEL
SET     : PUSH WHEEL
END     : PUSH MENU KEY
```

- To get the most from each feature, it is recommended that you read the Operation Manual before attempting any operation.

## VCR Status & Clock Display

Push DISPLAY to display and remove the overlay shown below.



## Blank Tape and will be Blue Screen

If a blank section of tape is encountered in the Play mode or the channel you select has no broadcast, the TV screen will change to a solid blue field. The screen will remain blue until a recorded signal is again detected or an active channel is selected.

## Warning and Instruction Displays

These displays will alert you to a missed operation or provide further instructions.

If no active channels are found for CHANNEL MEMORY...

NO CH FOUND  
PLEASE CHECK ANTENNA  
CABLE CONNECTION THEN  
PUSH VCR CH UP KEY AGAIN

If you attempt to set or review a Timer Recording and the Clock is not set...

PLEASE SET CLOCK  
BEFORE PROGRAMMING

If a Timer Program was not completed before exiting the Program mode...

PROGRAM IS INCOMPLETE

After a Timer Program has been set...

TURN VCR OFF  
FOR TIMER RECORDING

If you push REC on the remote control or REC and PLAY on the VCR, and a cassette is inserted with no record tab...

CHECK CASSETTE  
RECORD TAB

If you push PLAY, FF, REW, or REC on the remote control or if you push REC and PLAY, PLAY, FF, REW, or REC on the VCR without a cassette inserted...

NO CASSETTE  
PLEASE INSERT A CASSETTE

If you push POWER or STOP during a Timer Recording...  
(visible in VCR mode only)

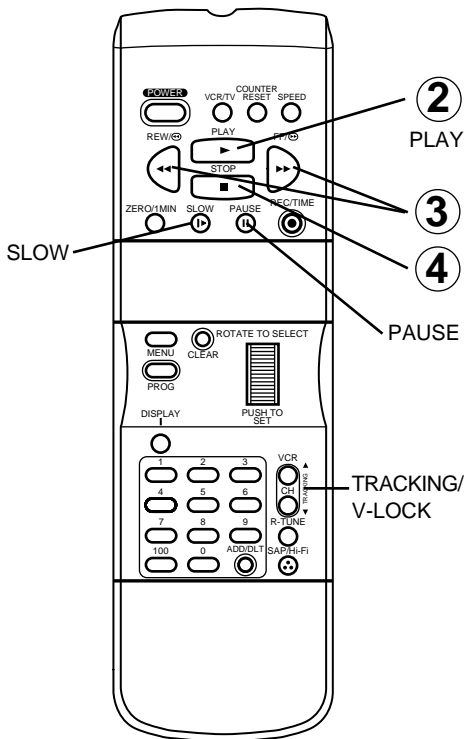
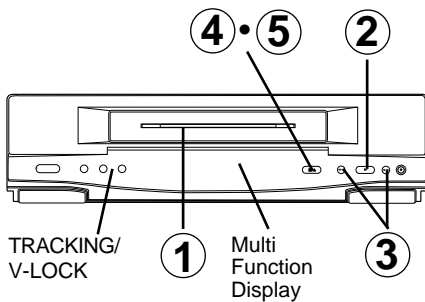
TO CANCEL TIMER REC  
PUSH POWER THEN STOP KEY

# ▶ Playback a Tape

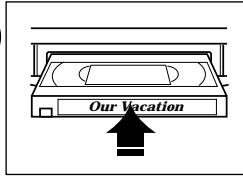


## Check list before you begin

- ☐ All connections are made.
- ☐ TV and VCR are plugged in.
- ☐ TV is turned on and set to the VCR channel (CH 3 or 4).



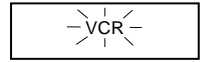
1



## Insert a cassette.

- VCR power comes on automatically.

This indicator lights in the Multi Function Display.



2

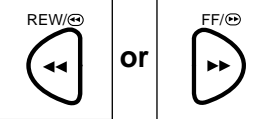


## Push PLAY to start playback.

- Playback begins automatically if cassette has no record tab.

(VCR or Remote Control)

3

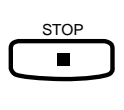


## Push REW or FF to quickly locate a scene.

- SP mode tapes have a search speed of 9 times and SLP mode tapes 27 times the normal speed.
- Some noise bars will appear during search.

(VCR or Remote Control)

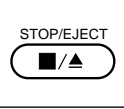
4



## Push STOP to stop playback.

(VCR or Remote Control)

5



## Push STOP/EJECT to eject the cassette.

- This button only on VCR.

## Special Effects During Playback

These features work best in SP or SLP mode. The sound will be muted. (After the VCR is in the still or slow mode for 3 minutes, it will go into the stop mode automatically to protect the tape and video head.)

### Slow Motion Playback

Push SLOW to start and PLAY or SLOW to release the Slow mode.

### Still (Freeze) Frame Picture

Push PAUSE to freeze and release the picture.

- To reduce picture noise:  
Place the VCR in Slow motion mode. Use TRACKING ▲/▼ to clear up the picture, then Push PAUSE.

### Frame by Frame Advance

While in Still mode, hold down the SLOW button to advance the still picture one frame at a time. Push PAUSE to release.

## Feature for a Quality picture

### Digital Auto Picture

This feature automatically controls the video output signal for less noise depending on the tape condition.

### Digital Auto Tracking

This feature continuously analyzes the signal and adjusts for optimum picture quality.

### Manual Tracking Control

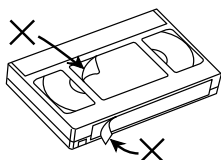
Use during Playback and Slow Motion mode to reduce picture noise. Push VCR CH (TRACKING) ▲/▼ buttons until the picture clears up. To return to Auto Tracking mode, push POWER off and then on again.

### V-Lock Control

In Still mode, the VCR CH (TRACKING) ▲/▼ buttons operate as a V-Lock control to reduce jitter. Push ▲/▼ until the picture is stabilized.

## Caution:

Please inspect your cassette tape for any loose or peeling labels as it may become jammed in your unit.

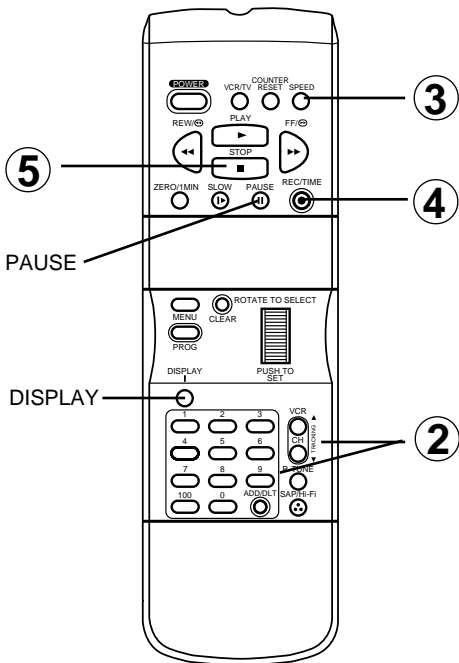
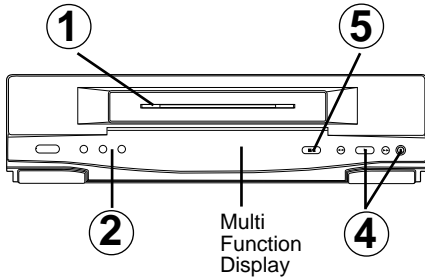


# Record On a Tape

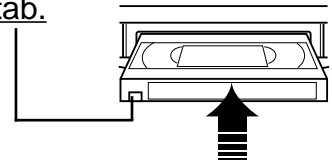


Check list before you begin.

- ☐ All connections are made.
- ☐ VCR is Plugged in.
- ☐ TV is turned on and set to the VCR channel (CH3 or CH4).



- 1 Insert a cassette with record tab.
  - VCR power comes on automatically.



- 2
 

VCR  
CH  
▲  
●  
▼  
TRACKING

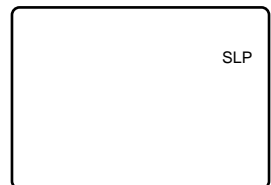
 Push VCR CH ▲/▼ or NUMBERED keys to select a channel.
  - Or, push CH ▲/▼ on the VCR.
  - To record from an outside source, push VCR CH ▲/▼ to select "LINE".



- 3
 

SPEED  
O

 Push SPEED to change current recording speed.
  - SP = Standard Play, LP = Long Play, SLP = Super Long Play.



- 4
 

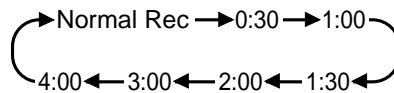
REC/TIME  
●

 Push REC/TIME to start recording.
  - Or, push PLAY and REC/TIME on VCR.
  - Push PAUSE to pause a recording in progress. (After the VCR has been in pause mode for 5 minutes, it will stop automatically to protect the tape and video head.)

## One Touch Timer Recording (OTR)

The VCR starts recording and turns itself off at a preset time.

Continue to push REC/TIME to set the recording length. Each Push will change the stop time as shown.

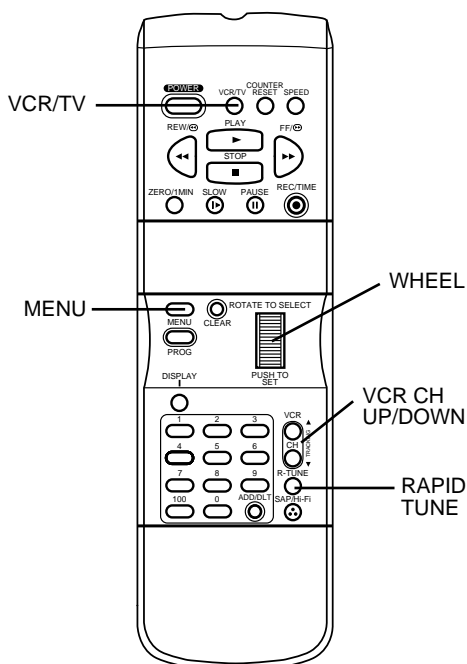
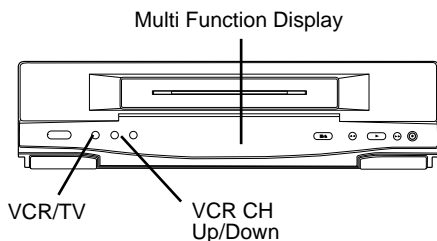


- "TIMER" lights in the Multi Function Display.
- The recording time remaining appears if the DISPLAY button is pushed during OTR mode.

- 5
 

STOP  
■

 Push STOP to stop recording.
  - Or, push STOP on the VCR.



## Selecting the Input Mode

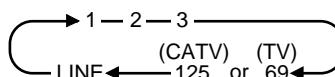
- 1 Push MENU to display the menu.
- 2 Rotate and push the Wheel to select "SET UP VCR."
- 3 Rotate the Wheel to select "INPUT SELECT" and then, push to choose TUNER or LINE.
  - You can also select "LINE" using the VCR CH ▲/▼ buttons. The numbers will change in the order shown.

```

----- MENU -----
SET UP VCR
SET CLOCK
SET UP CHANNEL
IDIOMA/ LANGUAGE: ENGLISH
SELECT : ROTATE WHEEL
SET : PUSH WHEEL
END : PUSH MENU KEY
  
```

```

----- SET UP VCR -----
REPEAT PLAY : ON
BEEPER : ON
INPUT SELECT : LINE
SET AUDIO MODE
SELECT : ROTATE WHEEL
SET : PUSH WHEEL
END : PUSH MENU KEY
  
```



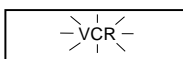
- When LINE is selected, "L" is displayed in the Multi Function Display for about 4 seconds.

## Watching Another TV Program

- 1 Push VCR/TV while recording is in progress to turn off the VCR indicator in the Multi Function Display.
- 2 Use the TV channel controls to select a program. The VCR will continue to record your program while you watch any channel you choose.
  - Switch back and forth between the recording and viewing channel with the VCR/TV selector.

## Selecting Channels at the VCR

- 1 Turn TV on.



Multi-Function Display

If indicator doesn't light, push VCR/TV to turn it on.

- 2 Use VCR CH Up/ Down buttons to select channels for viewing or recording.
  - To resume TV control channel selection, push VCR/TV to turn VCR indicator off, or simply turn VCR off.

## Rapid Tune

Push R-TUNE to display the last channel you were watching.

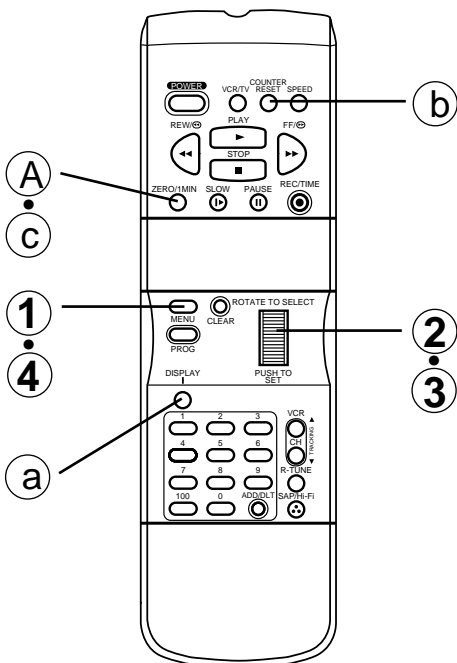
- When selecting channels with the VCR CH Up/Down buttons, channels must be displayed for at least 4 seconds in order for the VCR to recognize them as a new selection.

Previous Channel Present Channel  
CH08 ← → CH10




# Tape Operation

Your VCR is equipped with several time saving features as well as convenient automatic functions which make tape operation easier than ever.



## Repeat Play


You can set your VCR up to play a recording over and over.

- 1**  Push MENU to display the menu.

```

----- MENU -----
SET UP VCR
SET CLOCK
SET UP CHANNEL
ID IOMA/ LANGUAGE: ENGLISH

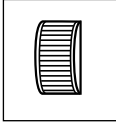
SELECT : ROTATE WHEEL
SET : PUSH WHEEL
END : PUSH MENU KEY

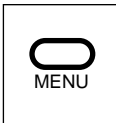
```
- 2**  Rotate and push the WHEEL to select SET UP VCR.

```

----- SET UP VCR -----
REPEAT PLAY : ON
BEEPER : ON
INPUT SELECT : TUNER
SET AUDIO MODE

SELECT : ROTATE WHEEL
SET : PUSH WHEEL
END : PUSH MENU KEY

```
- 3**  Rotate the WHEEL to select "REPEAT PLAY", then push to select "ON" or OFF.

  - The VCR plays to the end of a tape, or until a blank portion of 30 seconds or more is reached. (Erased portions of tape are not considered blank.) The tape is then automatically rewound and played again and again until Repeat Play is cancelled. All function buttons (REW, FF, etc.) are operational during Repeat Play.
- 4**  Push MENU twice to leave this screen.

## Auto Operation Functions

### Auto Playback

When a tape is inserted, the power comes on (Auto). If the record tab\* is removed, playback begins (Auto).

### Auto Rewind

After a tape reaches its end during playback, fast forward or manual record, the VCR will rewind and go into Stop mode.

### Playback Auto Eject

After a tape without a record tab\* is played to its end, the VCR will rewind and then eject the tape.

### Memory Rewind Off

When the POWER button is pushed during rewind, the VCR will turn off after rewind is complete.


### Eject Cassette

A cassette may be ejected with power on or off.

\* For record tab information.

## One Minute Skip

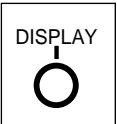
With this feature, you can skip over commercials recorded on a tape.

- A**  Push ZERO/1MIN in Play mode.

- The VCR will go into FF search mode and skip over 60 seconds of recorded time. Then, normal playback will resume.


## Zero Search

You can reset the Time Counter to zero and then return to that point.

- a**  Push DISPLAY to display the Time Counter overlay.

```


STOP 12:00AM CH08
      0:00:30
      SLP

```
- b**  Push COUNTER RESET to reset the Time Counter.

  - This may be done at as many places as you wish on the tape.

```

STOP 12:00AM CH08
      0:00:00
      SLP

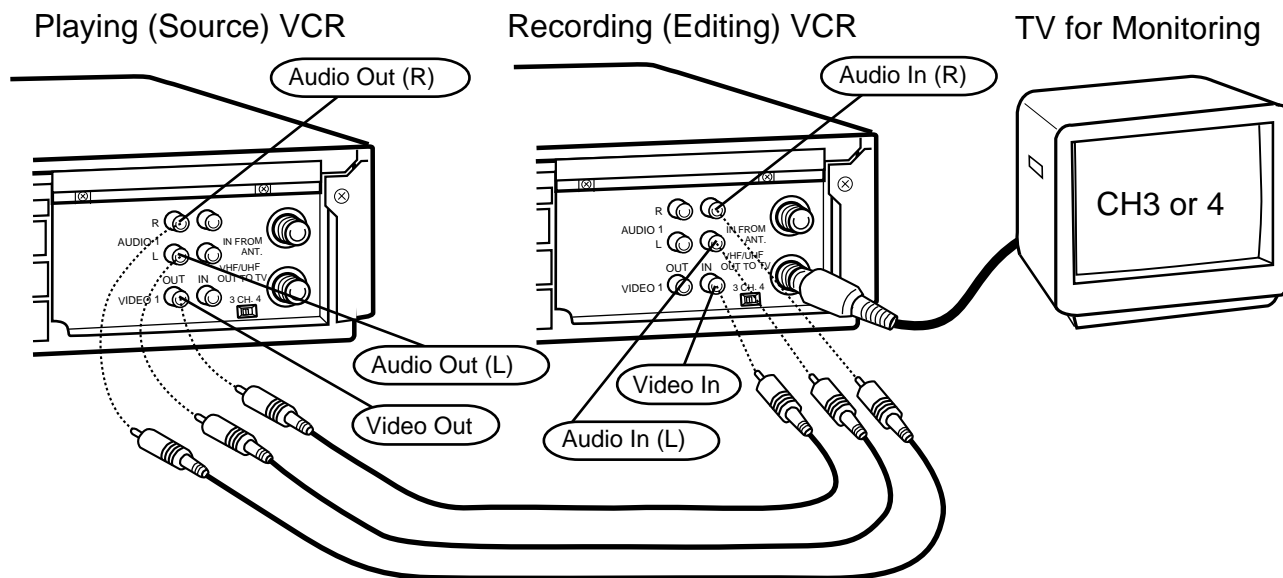
```
- c**  Push ZERO/1MIN in Stop mode.

  - The VCR will go into FF or REW mode and stop at the last point the Time Counter was set to 0:00:00.

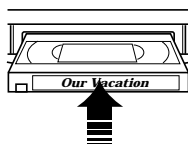


# Copying Your Tapes (Dubbing)

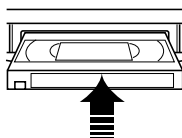
Connections you'll need to make.



- 1 Insert a pre-recorded tape into the Playing (Source) VCR.



- 2 Insert a blank tape with record tab into the Recording (Editing) VCR.



- 3 Select Input "LINE" on the Recording (Editing) VCR.

- 4 Push **PLAY** on Playing VCR. Push **PAUSE** at the point you want to start copying.

- 5 Push **REC** and **PLAY** at the same time on Recording VCR. Push **PAUSE** immediately.

- 6 Push **PAUSE** on both VCRs (at the same time), to begin copying.

## Edit Out Unwanted Parts

of the original recording by using the **PAUSE** button (on the Recording unit) while copying is in progress.

- 7 Push **STOP** on both VCRs to stop copying.

## To Monitor the Re-Recording

- 1 Turn the TV on and select its VCR channel (CH3 or CH4) on the Recording VCR.
- 2 Set the VCR/TV selector on the Recording VCR to the "VCR" position.

## Caution:

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



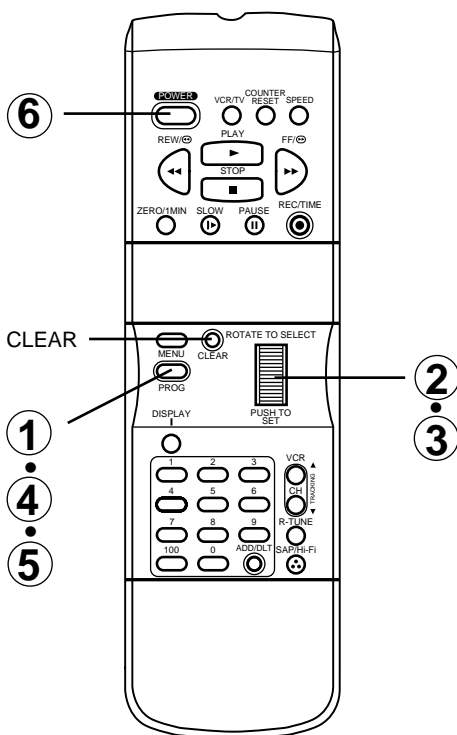
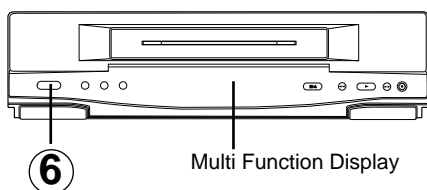
# Timer Recording

Your VCR can be set up to do a recording while you are away or otherwise occupied. Up to 8 programs can be placed in memory. You can choose to record one time, daily, or weekly.



## Check list before you begin.

- ☐ All connections are made.
- ☐ TV and VCR are plugged in and turned on.
- ☐ VCR/TV selector is set to "VCR."
- ☐ Clock is set to correct time.
- ☐ Record tab in place.

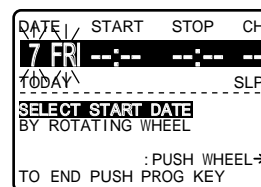


1

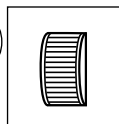


Push PROG to display the program screen.

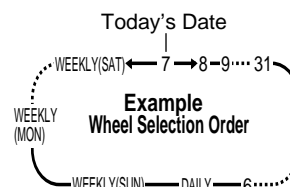
- If a program is already in memory, use the Wheel to select an unused program number.



2

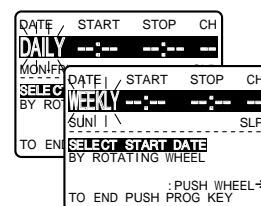


Rotate and push the WHEEL to select and set the DATE.

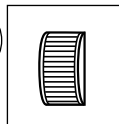


## Daily and Weekly Timer Recording

If you want the program to be recorded daily (Mon thru Fri), enter DAILY in place of the DATE in step 2. If you want the recording to be on a weekly basis, enter WEEKLY MON, TUE, etc..



3



Rotate and push the WHEEL to select and set remaining items at right.

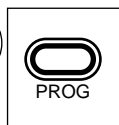
## Remaining Items to be set:

- START time
- STOP time
- CH(annel) number, or LINE for outside source recording.
- Speed (SP, LP, SLP).

## To Make Corrections

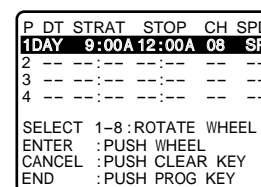
Repeatedly push the Wheel to move forward, or the CLEAR button to move back to the desired item. Then, select and set continue with step 3.

4

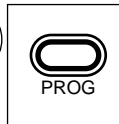


Push PROG to end the program.

- If you want to enter more programs, select a blank program number with Wheel and repeat steps 2 and 3.

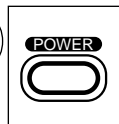


5



Push PROG to exit this mode.

6



Push POWER off to set the timer.

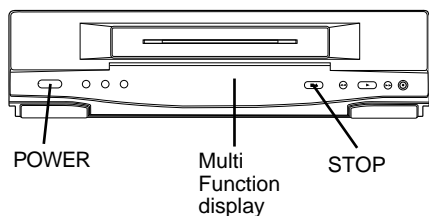
- When recording programs via a cable box, make sure the cable box is left ON and tuned to the desired channel.



Multi Function Display



- If the cassette record tab is missing at the time the POWER is turned OFF, the tape ejects and the TIMER indicator flashes.
- If the start times of two programs overlap, the lower numbered program will have priority.
- If the start time for a timer recording comes up during a normal recording or One Touch Recording (page 14), the timer recording will not be performed.
- If there is a power interruption of more than one minute, the recording will not be performed or continue.
- If "PROGRAM IS INCOMPLETE" appears on-screen in step 4, check all entries and make necessary corrections.



## Cancel a Timer Recording: Recording is in progress

- 1 Push the POWER button to release the VCR from timer mode.
- 2 Push the STOP button within 10 seconds of pushing the POWER button to cancel the recording.  
The TIMER indicator goes out in the Multi- Function display.

## Replace Program Contents: Recording is not in progress

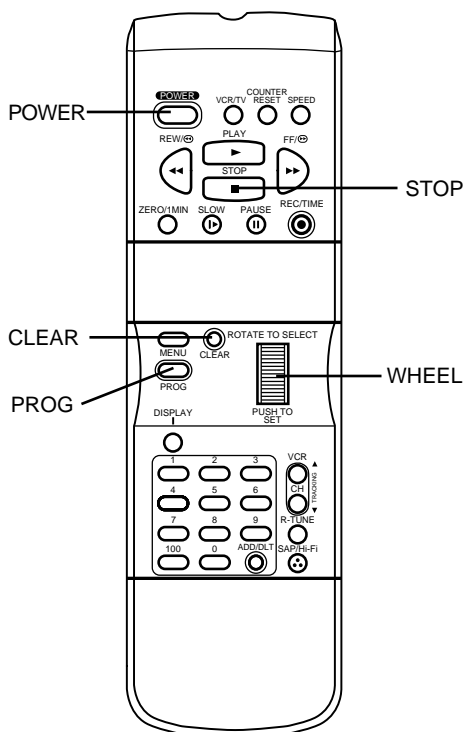
- 1 Push the PROG button to display all currently set programs.
- 2 Rotate and push the Wheel to select and enter the desired timer recording.
- 3 Rotate and push the Wheel to select and enter replacement information.
- 4 Push the PROG button to exit this mode and return to the normal TV screen.

P	DT	STRAT	STOP	CH	SPD
1	--	--	--	--	--
2	8	10:00P	12:00P	125	SLP
3	10	8:00P	9:00P	10	SP
4	SU	9:00P	10:00P	L	SLP

SELECT 1-8:ROTATE WHEEL  
 ENTER :PUSH WHEEL  
 CANCEL :PUSH CLEAR KEY  
 END :PUSH PROG KEY

DATE	START	STOP	CH
8 SAT	10:00P	12:00P	125
			SLP

SELECT START DATE  
 BY ROTATING WHEEL  
 ←PUSH CLEAR :PUSH WHEEL→  
 TO END PUSH PROG KEY



## Review or Clear Program Contents: Recording is not in progress

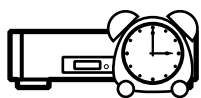
- 1 Push the PROG button to display all currently set programs.
- 2 Rotate the Wheel to select the desired program number.
- 3 Push the CLEAR button to clear the program.
- 4 Push the PROG button to exit this mode and return to the normal TV screen.

P	DT	STRAT	STOP	CH	SPD
1	DAY	9:00A	12:00A	08	SP
2	8	10:00P	12:00P	125	SLP
3	10	8:00P	9:00P	10	SP
4	SU	9:00P	10:00P	L	SLP

SELECT 1-8:ROTATE WHEEL  
 ENTER :PUSH WHEEL  
 CANCEL :PUSH CLEAR KEY  
 END :PUSH PROG KEY

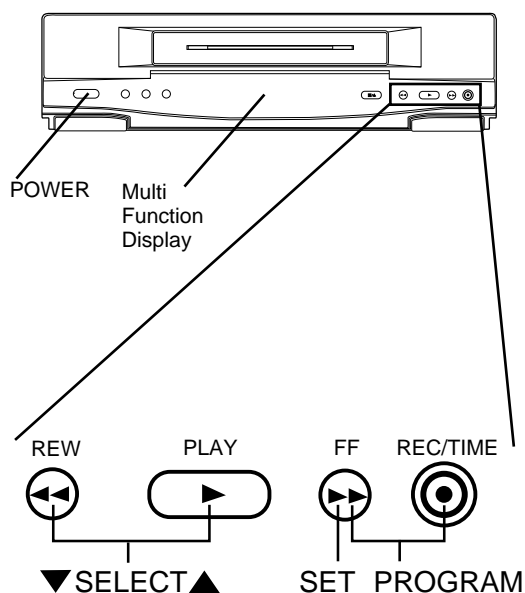
P	DT	STRAT	STOP	CH	SPD
1	--	--	--	--	--
2	8	10:00P	12:00P	125	SLP
3	10	8:00P	9:00P	10	SP
4	SU	9:00P	10:00P	L	SLP

SELECT 1-8:ROTATE WHEEL  
 ENTER :PUSH WHEEL  
 END :PUSH PROG KEY

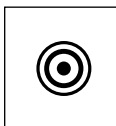


# Timer Recording Using VCR Buttons

A timer recording can be set up using the buttons on the VCR. If necessary, the clock can also be set.

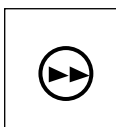


1



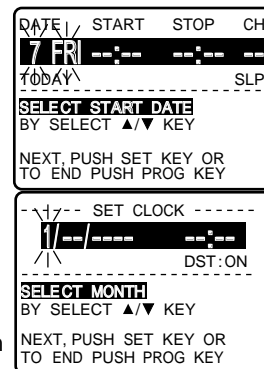
Hold down REC/TIME.

and

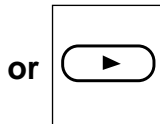


Push FF to enter the program mode.

- If the clock is not set, pushing these buttons will display the SET CLOCK screen. In this case, proceed with steps 2 and 3 to set the clock and then steps 2-6 to set a timer recording.
- Once the VCR is in the Program mode, the PLAY, REC, FF, and REW buttons on the VCR operate only as specified above.



2



Push REW or PLAY to make your selection.

(for down)

(for up)

3



Push FF to set and move on to the next item.

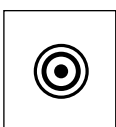
- Push SET (FF) repeatedly to move to a particular item for setting or correction.

## Items to be Set:

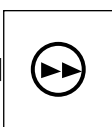
- recording DATE
- START time
- STOP time
- CH(annel), or LINE
- SPEED (SP, LP, SLP)

When the program is completed...

4



and



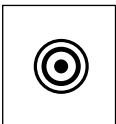
Push REC/TIME and FF to display program contents.

(at the same time)

To set the next program,

repeat steps 2, 3, and 4 before continuing with step 5.

5



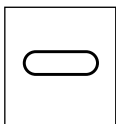
and



Push REC/TIME and FF to exit this mode.

(at the same time)

6

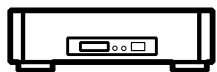


Push POWER off to set the timer.



Multi Function Display

- It is not possible to clear a timer program using the VCR buttons. Please use the Remote Control.
- When recording programs via a cable box, make sure the cable box is left on and tuned to the desired channel.

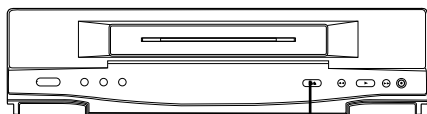


# Special VCR Features



Check list before you begin.

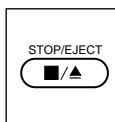
- ☐ All connections are made.
- ☐ VCR is Plugged in.
- ☐ TV is turned on and set to the VCR channel (CH3 or CH4).



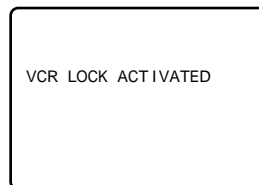
STOP/EJECT

## VCR Lock Feature

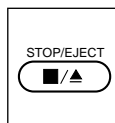
When activated, this feature prohibits all operations except for timer recording, and tape eject. This is useful to prevent misoperation and protect your VCR from curious children.



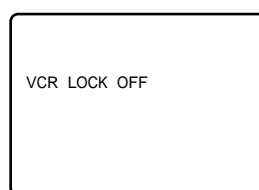
Hold down STOP/EJECT on the VCR for 7 seconds during Stop, or Power OFF mode.



To Cancel the VCR Lock feature,



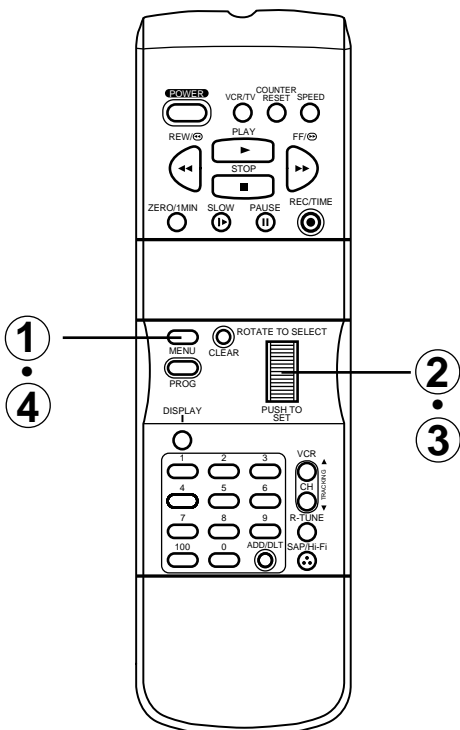
Hold down STOP/EJECT on the VCR for 7 seconds again during Stop, or Power OFF mode.



- VCR Lock mode is cancelled automatically after 24 hours when the clock is set.

## Warning Beeper Feature

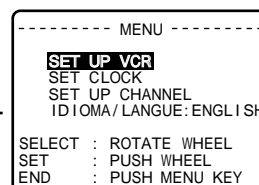
When you select BEEPER ON as described below, a short warning will sound each time an invalid entry or operation is made and a timer program is set.



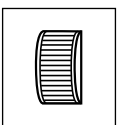
1



Push MENU to display the menu.

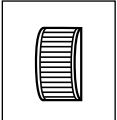


2

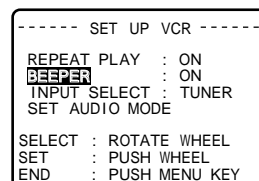


Rotate and push the WHEEL to select "SET UP VCR".

3



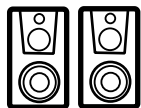
Rotate the WHEEL to select "BEEPER", then push to select "ON" or "OFF".



4



Push MENU twice to exit this screen.



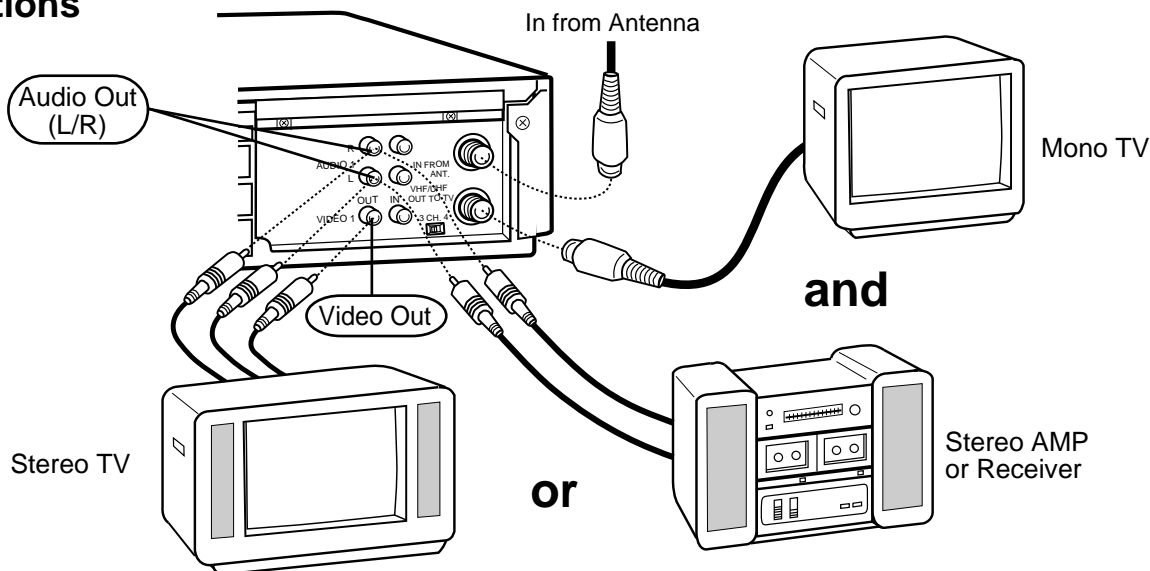
# MTS Broadcast/ VHS Hi-Fi Stereo System



Check list before you begin

- ☐ The VCR is connected to a stereo TV, or a mono TV and stereo amp or receiver with speakers.
- ☐ The VCR and other components are plugged in and turned on.

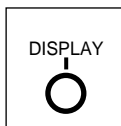
## Connections to Make



When recording, you may monitor in stereo, by connecting the VCR to either a stereo TV, or a mono sound TV with stereo amp and speakers.

## Receivable Broadcast Types

The following are possible broadcast types with their accompanying on-screen displays. The signal(s) not being received is enclosed in parenthesis. The currently selected audio mode is indicated with an arrow. To change the audio mode for listening to, or recording these broadcasts, follow the steps.



Push DISPLAY to display the broadcast signal currently being received on-screen.

### MTS Stereo and SAP broadcast

Multi-channel Television Sound Stereo (main language) and Second Audio Program (second language) broadcasts are being received simultaneously. Select the STEREO or SAP audio mode as desired.

STOP	12:00AM	CH08
		0:00:00
STEREO ←		SLP
SAP		
MONO		

### MTS Stereo broadcast

Multi-channel Television Sound Stereo broadcast is being received.

STOP	12:00AM	CH08
		0:00:00
STEREO ←		SLP
(SAP)		
MONO		

### SAP broadcast

Second Audio Program (second language) broadcast is being received. Select SAP audio mode for the second language.

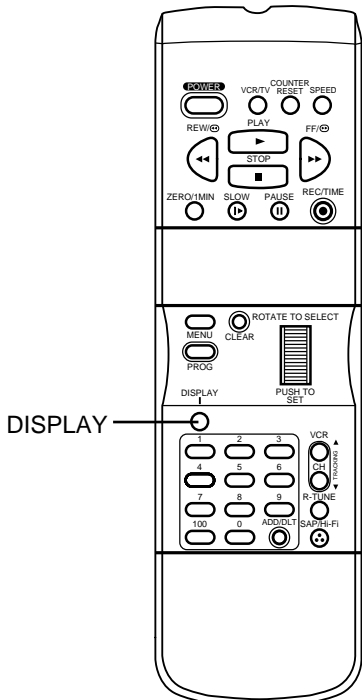
STOP	12:00AM	CH08
		0:00:00
(STEREO)		SLP
SAP ←		
MONO		

### MONO broadcast

Normal monaural sound broadcast is being received.

- If a stereo broadcast is weak and the display flickers, you may want to select the MONO audio mode for better results.

STOP	12:00AM	CH08
		0:00:00
(STEREO)		SLP
(SAP)		
MONO ←		



DISPLAY

Equipped with **dbx**® -TV Noise Reduction for true MTS reproduction. **dbx**® -TV Noise Reduction is required for good stereo separation and audio fidelity. **dbx**® is a registered trademark, and is licensed by **dbx**® Technology Licensing.

- When recording, the currently selected broadcast sound is always recorded on the left and right Hi-Fi tracks as well as the normal monaural track. This means your tapes can be played back on Hi-Fi as well as non-Hi-Fi VCRs.

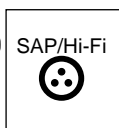
### With the proper audio mode setting, your VCR can:

- 1) record and playback an MTS stereo broadcast (main language) in stereo Hi-Fi.
- 2) record and playback a monaural broadcast (main language) or Second Audio Program (second language) on the Hi-Fi tracks for better quality monaural sound.
- 3) playback non Hi-Fi tapes in monaural.

## Selecting the Audio Mode for Recording

Select the type of broadcast and sound track you wish to record.

1

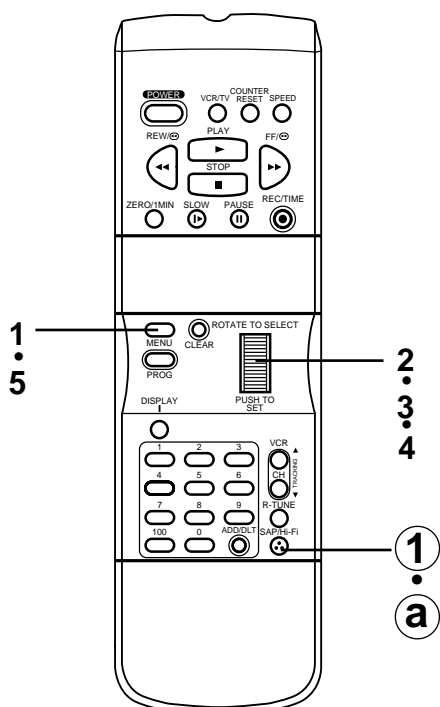


Push SAP/Hi-Fi repeatedly (each press within 5 seconds) to select the desired audio mode (STEREO/SAP/MONO).

- Please refer to "Receivable Broadcast Types" section.

STEREO ←  
SAP  
MONO

- The currently selected audio mode is indicated with an arrow.



2

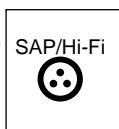
Do a recording.

See the "Record On a Tape" section.

## Selecting the Audio Mode for Playback

Select the type of sound track you desire for playback.

a



Push SAP/Hi-Fi repeatedly (each press within 5 seconds) to select the desired audio mode (HIFI/NORMAL).

- Please select HIFI to listen to your stereo recordings with stereo sound or MONO for monaural sound.

HIFI ←  
NORMAL

- The currently selected audio mode is indicated with an arrow.

b

Playback the tape.

See the "Playback a Tape" section.



- When purchasing or renting prerecorded tapes, remember that only those recorded in Hi-Fi stereo will play back with true stereo sound. Standard stereo tapes will play back with monaural sound.

- In order to listen to Hi-Fi stereo playback, the VCR AUDIO (L/R) jacks must be connected to a stereo TV or stereo amp and speakers. (See previous page.)
- When adjusting the tracking during playback, the Hi-Fi audio sound may revert to normal audio sound. This is normal.
- There may be a difference in audio level between Hi-Fi and normal audio playback.

## To Select Audio Mode From Menu

1 Push MENU to display the menu.

2 Rotate and push the Wheel to select SET UP VCR from menu.

3 Rotate the Wheel to select SET AUDIO MODE.

4 Push the Wheel to set the desired audio for listening or recording.

- For recording, set to "STEREO", "SAP", or "MONO".
- For playback, set PLAY AUDIO to "Hi-Fi", or "MONO".

5 Push MENU three times to exit this mode.

```
----- SET UP VCR -----
REPEAT PLAY : ON
BEEPER      : ON
INPUT SELECT : TUNER
SET AUDIO MODE
SELECT      : ROTATE WHEEL
SET         : PUSH WHEEL
END         : PUSH MENU KEY
```

```
---- SET AUDIO MODE ----
AUDIO MODE : STEREO
PLAY AUDIO  : HIFI
SELECT      : ROTATE WHEEL
SET         : PUSH WHEEL
END         : PUSH MENU KEY
```