

There are four ways to record using your VCR - immediate recording, instant timer recording, automatic timer recording, and dubbing.

The video cassette you use for recording must have the erase-protection tabs in place. If the tab is removed, the cassette automatically ejects if you try to record on it. (See "Erase-Protection.")

NOTE: Your VCR automatically adjusts the sound level while it records.

#### TAPE SELECTION

The quality of tape you use greatly affects record/playback quality and the life of the VCR. Use only video cassettes that display the official VHS logo.

High-grade tape has a better oxide coating that helps prevent dirty video heads and gives the best results.

Although T-160 video cassettes offer the longest time, they contain thinner tape that is more likely to jam. We suggest you use T-120 or shorter length tape.

The following chart shows the maximum recording times for different-length tapes at three recording speeds.

Cassette Recording Speed	T-60	T-120	T-160
SP	1 hour (60 minutes)	2 hour (120 minutes)	2 2/3 hours (160 minutes)
LP	2 hour (120 minutes)	4 hours (240 minutes)	5 1/3 hours (320 minutes)
EP	3 hour (180 minutes)	6 hours (360 minutes)	8 hours (480 minutes)

#### Erase Protection

Video cassettes have an erase-protection tab to prevent accidental erasure of a tape. To prevent recording, break off the tab using a screwdriver. The cassette automatically ejects if you try to record on the tape.

If you do not want to record on a video cassette that does not have the tab, put a piece of heavy plastic tape over the tab hole.

#### IMMEDIATE RECORDING

You can record the same program you watch or record one program while you watch another, depending on which connection you choose.

NOTE: If you want to record from another VCR, a laser disc player, or other source with A/V outputs, see "Dubbing."

#### Recording a Program as You Watch It

1. Turn on the VCR and the TV. If your TV has A/V inputs, set it to the video mode.
2. Set the TV tuner to the same channel as the VCR's CH.3/4 switch.
3. Press TV/VCR on the remote control so VCR appears on the display.
4. Press TU/AV on the remote control to select the tuner mode.
5. Insert the VHS tape you want to record on into the VCR.
- 6.. Press SP/LP/EP on the remote control to display the desired recording speed (SP, LP, or EP).
7. Set TV/CATV on the set-up menu to the desired band.

PUSH NUMBER SHOWN 1 TV SYSTEM (TV) 2 AUTO CHANNEL SET 3 LANGUAGE SELECT TO END PUSH MENU
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8. Press CHANNEL - or + or use the remote control's number buttons to select the desired channel.
9. Press RECORD/ITR on the VCR or remote control.

You can press PAUSE/STILL during recording to temporarily pause recording (during commercials, for example). To resume recording, press PAUSE/STILL again.

10. Press STOP/EJECT (or stop on the remote control) to stop recording.

#### Recording One Program While You Watch Another.

1. Follow Steps 1-9 in the previous section.
2. Press TV/VCR so VCR does not appear on the VCR's display. If your TV has A/V inputs, be sure to set it to the TV mode.
3. Set the TV tuner to the channel you want to watch.
4. Press STOP/EJECT (or STOP on the remote control) to stop recording.

#### INSTANT TIMER RECORDING

Instant Timer Recording (ITR) starts recording immediately and

automatically stops after the length of time you select (30 minutes to 9 hours).

1. Follow Steps 1-9 in "Recording a Program as You Watch It."
2. To set the recording end time, press RECORD/ITR again. The record menu with the end time appears on the TV screen. Repeatedly press RECORD/ITR until the VCR displays the desired recording length within the next 9 hours.

INSTANT TIMER RECORDING
CH 02
TAPE SPEED: SP
START 02:22 PM
LENGTH 0:00

#### ITR Hints

To ensure that you record all of the desired program, set the end time a little later than the end of the program.

ITR cannot function if a cassette is not inserted, if the erase-protection tab is removed, or if an automatic timer recording is in progress.

To cancel a ITR before the VCR begins recording, press RECORD/ITR until 0:00 appears as the end time.

To cancel a ITR in progress, press POWER to turn off the VCR.

You can change the ITR end time by pressing RECORD/ITR during the ITR recording time.

The SP/LP/EP button is active during ITR, but should not be used while the VCR records.

You cannot check automatic program timer settings during ITR.

#### AUTOMATIC TIMER RECORDING

Automatic timer recording lets you set the VCR to start and end recording while you are away. You can set eight program timers to record a combination of daily, weekly, or one-time TV programs. This allows you to record at the same time Monday through Friday (DAILY), on the same day every week (WEEKLY), or on selected days within a one-year period (NORMAL).

You can set each program timer to record on a different channel and at a different speed.

Automatic timer recording consists of two steps: setting the program timer and making the automatic timer recording.

#### Setting the Program Timer

You must use the remote control to set the program timer. Be sure you correctly set the clock before you use automatic timer recording.

In this example, timer No.1 is set to record Channel 04 from 9:00 PM to 10:30 PM on July 9, 1993, at the SP speed.

1. Insert the VHS tape you want to record on into the VCR. The VCR turns on.

If the cassette's erase-protection tab has been removed, place a piece of plastic tape over the hole to allow recording on the tape.

2. Turn on the TV and set it to the same channel as the VCR's CH.3/4 switch. If your TV has A/V inputs, set it to the video mode.
3. Press TV/VCR so VCR appears on the display.
4. Press MENU on the remote control. The program timer menu appears on the TV screen.

```
PUSH NUMBER SHOWN
1 CLOCK SET
2 NORMAL PROGRAM
3 DAILY PROGRAM
4 WEEKLY PROGRAM
5 PROGRAM REVIEW
6 SET UP
TO END PUSH MENU
```

5. Select the timer mode. Press 2 for NORMAL, 3 for DAILY, or 4 for WEEKLY. (For our example, press 2 to set NORMAL).

```
NORMAL PROGRAM
PROGRAM 1
SELECT SOURCE INPUT
TUNER —> 1 AV —> 2
TO END PUSH MENU
```

NOTE: If all eight timers have been set and there is no more room for another program, FULLY PROGRAMMED appears. To set another program timer, you must first clear one of the timers. (See "Clearing a Program Timer.")

6. Select the desired input mode, TUNER or AV. Press 1 for TUNER or 2 for AV. (For our example, press 1 to set TUNER.)

```
NORMAL PROGRAM
PROGRAM 1
CH --
TO END PUSH MENU
```

7. Select the channel you want to record from, using the remote control's number buttons. (For our example, press 0 and 4 to select 04.)

```
NORMAL PROGRAM
PROGRAM 1
CH 04 SPEED --
SP->1 LP->2 EP->3
TO END PUSH MENU
```

NOTE: Precede single-digit entries with 0.

8. Select the tape speed. Press 1 for SP, 2 for LP, or 3 for EP. (For our example, press 1 to select SP.)

```
NORMAL PROGRAM
PROGRAM 1
CH 04 SPEED SP
START TIME --:-- --
TO END PUSH MENU
```

9. Use the number buttons to set the start time. (For our example, press 0 9 0 and 0 to set 9:00.)

```
NORMAL PROGRAM
PROGRAM 1
CH 04 SPEED SP
START TIME 09:00
AM=1 PM=2
TO END PUSH MENU
```

10. Press 1 to set AM or 2 to set PM. (For our example, press 2 to select PM.)

```
NORMAL PROGRAM
PROGRAM 1
CH 04 SPEED SP
START TIME 09:00 PM
STOP TIME --:--
TO END PUSH MENU
```

11. Use the number buttons to set the end time. (For our example, press 1 0 3 and 0 to set 10:30.)

```
NORMAL PROGRAM
```

```
PROGRAM 1
CH 04  SPEED SP
START TIME 09:00 PM
STOP TIME 10:30 --
      AM=1  PM=2

TO END PRESS MENU
```

12. Press 1 to set AM or 2 to set PM. (For our example, press 2 to select PM.)

```
NORMAL PROGRAM
PROGRAM 1
CH 04  SPEED SP
START TIME 09:00 PM
STOP TIME 10:30 PM
START DATE 07/04/94
              SAT
TO END PUSH MENU
```

13. Use the number buttons to set the desired date. The year and day automatically appear. (For our example, press 0 7 0 and 9 to set July 9.)

```
NORMAL PROGRAM
PROGRAM 1
CH 04  SPEED SP
START TIME 09:00 PM
STOP TIME 10:30 PM
START DATE 07/09/93
              FRI
TO END PUSH MENU
```

14. Double-check all the set information.

If some information is not correct, press CLEAR as needed to erase the incorrect information, then enter the correct information.

When all information is correct, press MENU.

15. Press MENU again to exit the menu.

#### Making an Automatic Timer Recording

After you set the automatic program timer(s), follow these steps to make the recording(s).

1. Be sure the cassette you want to record on is in the cassette compartment and rewound to the correct location.
2. Press POWER to turn off the VCR.

When TMR appears, the VCR is in the timer standby mode. When a timer recording begins, the record indicator appears.

NOTE: You can turn on and operate the VCR manually prior to the set times, but the VCR makes the automatic timer recording(s) only if the power is off at the set start time(s).

#### Automatic Timer Recording Hints

The VCR's power turns off at the end of automatic timer recording.

If a power failure occurs or if the VCR is unplugged for more than one hour, the VCR loses the clock setting and all timer settings.

If you set the timer and turn off the VCR without loading a cassette, the cassette indicator flashes.

If the end of a tape is reached during timer recording, the VCR rewinds and ejects the tape, then turns off.

#### Monitoring an Automatic Timer Recording

To monitor an automatic timer recording, turn on the TV and set it to the same channel as the VCR's CH.3/4 switch. If your TV has A/V inputs, set it to the video mode.

#### Checking/Clearing Program Timers

1. Turn on the TV and set it to the same channel as the VCR's CH.3/4 switch. If your TV has A/V inputs, set it to the video mode.
2. Turn on the VCR and press TV/VCR so VCR appears on the display.
3. Press MENU. The menu appears on the TV screen.
4. Press 5 to select PROGRAM REVIEW.
5. Repeatedly press 5 to review the program information. Press CLEAR if you want to clear any program timers.

NOTE: If there are no program timers set when you check the timers, EMPTY flashes on the TV screen for about 3 seconds.

6. Press MENU to exit the PROGRAM REVIEW mode. The menu reappears.
7. Press MENU again to exit the menu.

#### DUBBING

The process of recording from one VCR to another is called dubbing.

You can use a camcorder, satellite receiver, or other device with A/V outputs in place of the playback VCR.

1. Connect the playback VCR's video and audio outputs to the Model 96's corresponding AUDIO/VIDEO IN jacks.

NOTE: Always use video-quality shielded cables with phono connectors. Do not use standard audio patch cords.

2. Insert a pre-recorded video cassette into the playback VCR or camcorder.
3. Insert the tape you want to record on into the Model 96's cassette compartment.
4. Press TU/AV on the remote control so AV appears on the TV screen.
5. Press SP/LP/EP on the remote control to display the desired recording speed (SP, LP, or EP).
6. Press RECORD/ITR on the remote control.
7. Begin playback of the tape in the playback VCR or camcorder.

NOTE: For best results during dubbing, hold the Model 96's remote control close to the Model 96's remote control receiver window when you press TU/AV and SP/LP/EP. Otherwise, the remote control might affect the playback VCR's operation.

#### Monitoring Dubbing

1. Turn on the TV connected to the Model 96, and set it to the same channel as the Model 96's CH.3/4 switch. If your TV has A/V inputs, set it to the video mode.
2. Press TV/VCR on the remote control until VCR appears on the display.

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