SONY

Video Cassette Recorder

Operating Instructions

ED
Easy & Durable

VHS
PAL NTSC

SLV-ED313MJ/SG

Connecting the VCR

AERIAL IN

AERIAL OUT

Mains lead

to mains

AERIAL IN

⟹ **: Signal flow**

Aerial cable (supplied)
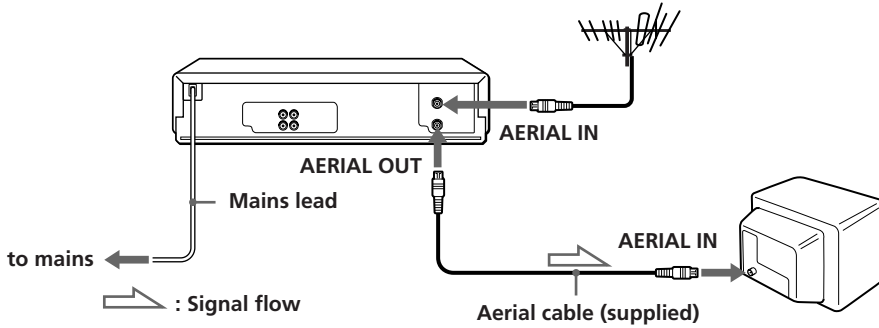
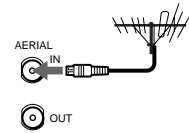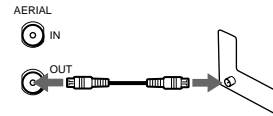**1** Disconnect the aerial cable from your TV and connect it to AERIAL IN on the rear panel of the VCR.

AERIAL
IN
OUT

2 Connect AERIAL OUT of the VCR and the aerial input of your TV using the supplied aerial cable.
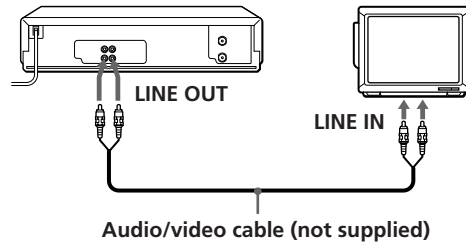
AERIAL
IN
OUT

3 Connect the mains lead to the mains.

Additional connections

To a TV that has audio/video input jacks

This additional connection improves picture and sound quality. Connect the TV as shown on the right.

LINE OUT

LINE IN

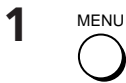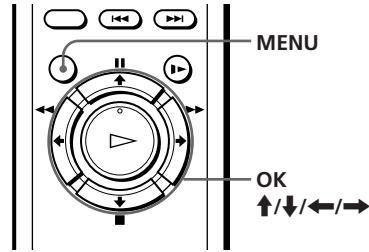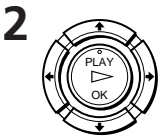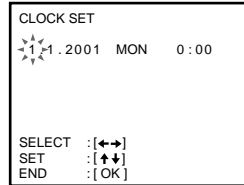**Audio/video cable (not supplied)**

2

Setting the clock

You must set the time and date on the VCR to be able to use the timer recording features properly.

MENU

OK
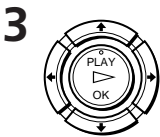**↑/↓/←/→**

Before you start…
• Turn on the VCR and the TV.
• Set the TV to the video channel.

1 MENU

Press MENU, then press ↑/↓ to move the cursor (▶) to CLOCK SET and press OK.

```
CLOCK SET

  1 . 2001   MON    0 : 00




SELECT  : [←→]
SET     : [↑↓]
END     : [ OK ]
```

2

Press ↑/↓ to set the date.

The day of the week is set automatically.

```
CLOCK SET

 25 . 1 . 2001   THU    0 : 00




SELECT  : [←→]
SET     : [↑↓]
END     : [ OK ]
```

3
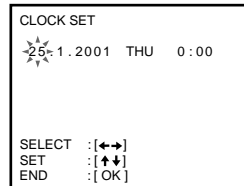
Press → to select the month and set the month using ↑/↓.

```
CLOCK SET

 25 . 12 . 2001   TUE   0 : 00




SELECT  : [←→]
SET     : [↑↓]
END     : [ OK ]
```

4
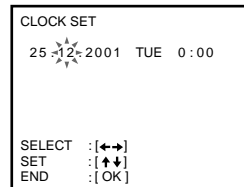
Set the year, hour and minute in sequence, using → to select the item to be set, and ↑/↓ to select the digits.

```
CLOCK SET

 25 . 12 . 2001   TUE   15 : 30




SELECT  : [←→]
SET     : [↑↓]
END     : [ OK ]
```

5
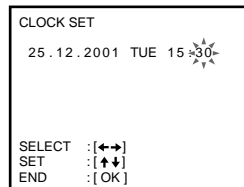
Press OK to start the clock.

3

Presetting channels

First, we recommend that you preset the receivable channels in your area using the One Touch Tuning function or AUTO PRESET in the TUNER PRESET menu. Then, if some channels cannot be preset automatically, set them manually. If there are any unwanted channels among the preset ones, you can disable the channels.

Presetting all receivable channels using the One Touch Tuning function

PROGRAM +/–

ONE TOUCH TUNING
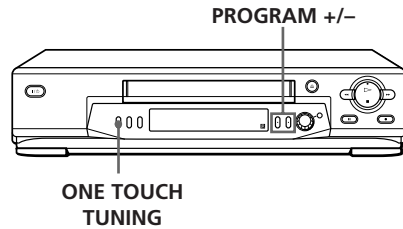
ONE TOUCH TUNING

Press and hold ONE TOUCH TUNING on the VCR for more than three seconds.

The VCR starts presetting the channels.

SP   APC
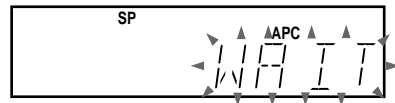
WAIT

The WAIT indicator goes off when all receivable channels are preset.

To check if the channels are preset correctly

Set the TV to the video channel and press PROGRAM +/– on the VCR. If the TV screen changes to a different programme each time you press PROGRAM +/–, the channels are preset correctly.

If the sound is distorted or noisy, the VCR is set to a TV system different from your area's system. Select the correct TV system and preset channels using the TUNER PRESET menu as shown on the next page.

Tip
• To stop the One Touch Tuning function, press ONE TOUCH TUNING or ■ STOP on the VCR during the setting.

4

Presetting all receivable channels automatically

This VCR is capable of receiving B/G, D/K and I system channels. For receivable channel details, see page 7.

MENU

OK
↑/↓/←/→

Before you start…
- Turn on the VCR and the TV.
- Set the TV to the video channel.

---

1   MENU

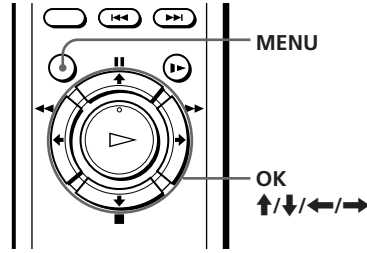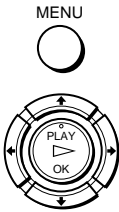Press MENU, then press ↑/↓ to move the cursor (▶) to TUNER PRESET and press OK.

```
TUNER PRESET              PROG 1

  SYSTEM        •B/G   D/K   I
  NORMAL / CATV  •NORM  CATV
  AUTO PRESET
▶CHANNEL SET          1
  AFT           •ON      OFF
  FINE TUNING

SELECT  :[↑↓]
SET     :[←→]
```

2

Press ↑/↓/←/→ to move the cursor (▶) to SYSTEM, then select B/G, D/K or I, whichever is applicable in your area. If SYSTEM is set to the wrong position, the sound will be distorted or noisy.

```
TUNER PRESET              PROG 1

▶SYSTEM        •B/G   D/K   I
  NORMAL / CATV  •NORM  CATV
  AUTO PRESET
  CHANNEL SET          1
  AFT           •ON      OFF
  FINE TUNING

SELECT  :[↑↓]
SET     :[←→]
```

3

Press ↑/↓/←/→ to move the cursor (▶) to NORMAL/CATV, then select NORM.

To preset CATV channels, select CATV.

```
TUNER PRESET              PROG 1

  SYSTEM        •B/G   D/K   I
▶NORMAL / CATV  •NORM  CATV
  AUTO PRESET
  CHANNEL SET          1
  AFT           •ON      OFF
  FINE TUNING

SELECT  :[↑↓]
SET     :[←→]
```

4

Press ↑/↓ to move the cursor (▶) to AUTO PRESET, then press OK.

All receivable channels are preset in numerical sequence. When no more receivable channels can be found, presetting stops and the picture from the lowest numbered channel is displayed on the TV screen.

```
TUNER PRESET              PROG 1

  SYSTEM        •B/G   D/K   I
  NORMAL / CATV  •NORM  CATV
▶AUTO PRESET
  CHANNEL SET          1
  AFT           •ON      OFF
  FINE TUNING
 ▲▲▲▲▲▲▲▲▲▲▲
 ▶PLEASE WAIT◀
 ▼▼▼▼▼▼▼▼▼▼▼
```
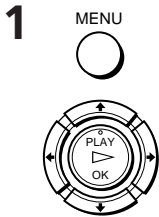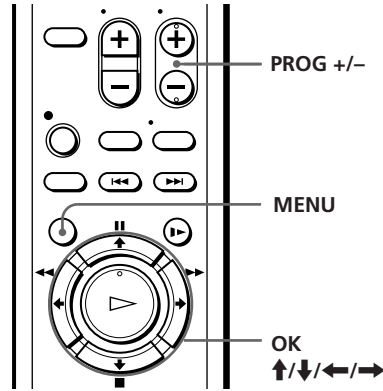

5

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Presetting channels manually

PROG +/−

MENU

OK
↑/↓/←/→

1

MENU

PLAY
▷
OK

Press MENU, then press ↑/↓ to move the cursor (▶) to TUNER PRESET and press OK.

```
TUNER PRESET              PROG10

   SYSTEM        •B / G   D / K    I
   NORMAL / CATV    •NORM  CATV
   AUTO PRESET
 ▶CHANNEL SET           21
   AFT              •ON       OFF
   FINE TUNING

   SELECT   :[↑↓]
   SET      :[←→]
```

2

PLAY
▷
OK

Press ↑/↓/←/→ to move the cursor (▶) to NORMAL/CATV, then select NORM.

To preset CATV channels, select CATV.

```
TUNER PRESET              PROG10

   SYSTEM        •B / G   D / K    I
 ▶NORMAL / CATV    •NORM  CATV
   AUTO PRESET
   CHANNEL SET           21
   AFT              •ON       OFF
   FINE TUNING

   SELECT   :[↑↓]
   SET      :[←→]
```

3

PLAY
▷
OK

Press ↑/↓ to move the cursor (▶) to CHANNEL SET.

```
TUNER PRESET              PROG10

   SYSTEM        •B / G   D / K    I
   NORMAL / CATV    •NORM  CATV
   AUTO PRESET
 ▶CHANNEL SET           21
   AFT              •ON       OFF
   FINE TUNING

   SELECT   :[↑↓]
   SET      :[←→]
```

4

• PROG
⊕
⊖

Press PROG +/− to select the programme position.

Selected programme position

```
TUNER PRESET              PROG14

   SYSTEM        •B / G   D / K    I
   NORMAL / CATV    •NORM  CATV
   AUTO PRESET
 ▶CHANNEL SET           21
   AFT              •ON       OFF
   FINE TUNING

   SELECT   :[↑↓]
   SET      :[←→]
```
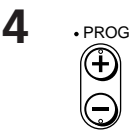
6

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5 Press ➡ repeatedly until the channel you want is displayed.

Pressing ⬅ goes back to the previous channels.

The channels are scanned in the following order:

```
TUNER PRESET          PROG14

 SYSTEM        •B / G   D / K   I
 NORMAL / CATV  •NORM  CATV
 AUTO PRESET
▶CHANNEL SET          35
 AFT               •ON      OFF
 FINE TUNING

SELECT   : [↑↓]
SET      : [←→]
```

Channel coverage	System B/G	System D/K	System I
VHF	E2–E12	R1–R12	SA4–SA13
UHF	E21–E69	R21–R69	B21–B69
CATV (TV distribution)	S1–S41, S01–S05	–	S1–S41, S01–S05

If you know the number of the channel you want, press the programme number buttons. For example, for channel 5, first press "0" and then press "5."

6 If the TV sound is distorted or noisy, press ↑/↓/⬅/➡ to move the cursor (▶) to SYSTEM, then select B/G, D/K or I whichever is applicable in your area.

```
TUNER PRESET          PROG14

▶SYSTEM        •B / G   D / K   I
 NORMAL / CATV  •NORM  CATV
 AUTO PRESET
 CHANNEL SET          35
 AFT               •ON      OFF
 FINE TUNING

SELECT   : [↑↓]
SET      : [←→]
```

7 To allocate another channel to another programme position, repeat steps 4 and 5.

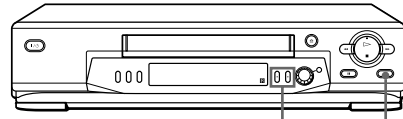**8** Press OK.

Disabling unwanted programme positions

After presetting channels, you can disable unused programme positions. The disabled positions will be skipped later when you press the PROG +/– buttons.

1 In step 5 above, press programme number button "0" twice to display the number "0" beside CHANNEL SET.
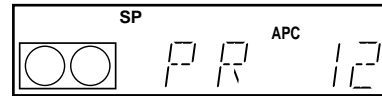
2 Press OK.

7

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Recording TV programmes

PROGRAM +/–   ● REC

1   Turn on your TV and set it to the video channel.

2   Insert a tape with its safety tab in place.

3 PROGRAM   Press PROGRAM +/– to select the programme position you want to record.

> SP   APC
>
> PR   12

4 REC   Press ● REC to start recording.

The recording indicator lights up red in the display window.

Recording indicator

> LP   APC
>
> 0:00:10
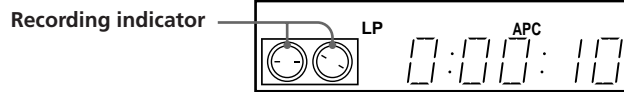
To stop recording
Press ■ STOP.

To check the remaining tape length
Press DISPLAY on the remote commander. The white bar indicates the approximate length of tape remaining.

To watch another TV programme while recording
1   If the TV is connected to the VCR using an audio/video cable, set the TV to TV input. If the TV is connected to the VCR using only the aerial cable, skip this step.

2   Select another programme position on the TV.

To save a recording
To prevent accidental erasure, break off the safety tab as illustrated. To record on the tape again, cover the tab hole with adhesive tape.

Safety tab

8

Recording TV programmes using the Easy Timer function

The Easy Timer function allows you to make a timer recording of a programme without turning on your TV. Set the recording timer to record only one programme that will be broadcast within the next 24 hours using the EASY TIMER knob. If the VCR clock has not been set, you can also set the clock before setting the timer recording.

Setting the Easy Timer

Before you start…
• Insert a tape with its safety tab in place. Make sure the tape is longer than the recording time.

PROGRAM +/−

REC SPEED
SP/LP (SP/EP)

EASY TIMER
knob

---
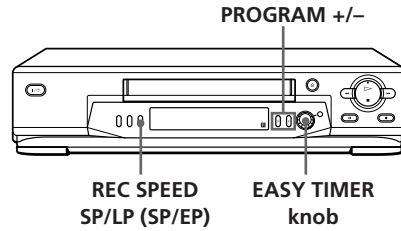
1 EASY TIMER

Push the EASY TIMER knob.

The START indicator appears in the display window.

If the clock has not been set, "−:− −" appears. Go to step 2 in "Setting or changing the Easy Clock" on page 11.

SP   START
APC

---
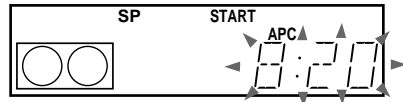
2 EASY TIMER

Set the recording start time by turning the EASY TIMER knob clockwise or counterclockwise to increase or decrease the time by 15 minutes.

To increase or decrease the time by one minute, press PROGRAM +/−.

SP   START
APC

---
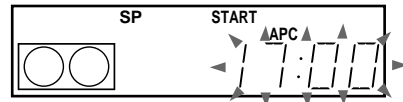
3 EASY TIMER

Push the EASY TIMER knob to confirm the start time setting.

The STOP indicator appears.

SP   STOP
APC

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Recording TV programmes using the Easy Timer function (continued)

4 EASY TIMER

Set the recording stop time in the same way as in step 2, then push the EASY TIMER knob.

A programme number flashes.

```
SP
          APC
OO    P R  ◄  3 0  ►
```
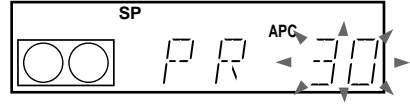
5 EASY TIMER

Turn the EASY TIMER knob clockwise or counterclockwise to select the programme you want to record.

To select the tape speed, press REC SPEED.

REC SPEED
SP/LP

(SP/EP)

```
LP
          APC
OO    P R  ◄  3 4  ►
```
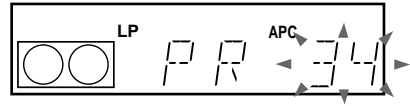
6 EASY TIMER

Push the EASY TIMER knob to confirm the setting.

The ⏻ indicator appears in the display window and the VCR stands by for recording.

```
⏻
OO          8 : 2 3
```

Setting or changing the Easy Clock

When "–:– –" is displayed in the display window, the VCR clock has not been set. You need to set the clock using the Easy Clock function before setting the timer. You can also change the current time using the Easy Clock function.

Programme number buttons

EASY TIMER

PROG +/–
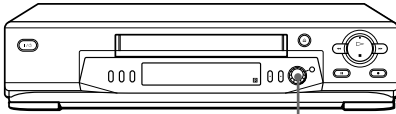
EASY TIMER knob

---
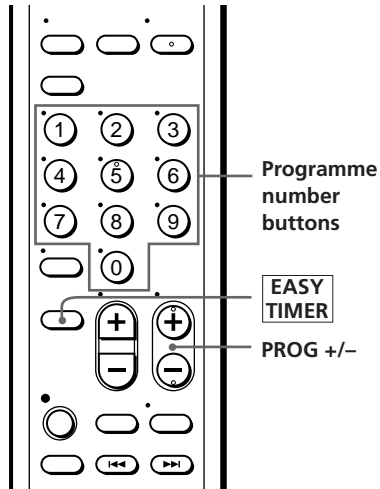
1 EASY TIMER

• When "–:– –" is displayed in the display window, push EASY TIMER.

• To change the clock setting, push and hold the EASY TIMER knob on the VCR for more than three seconds.

The CLOCK indicator and the current clock setting appear in the display window.

SP CLOCK   APC

---
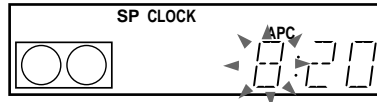
2 EASY TIMER

Set the current time using the EASY TIMER knob.

1 Turn the EASY TIMER knob clockwise or counterclockwise to enter the current hour.

2 Push the EASY TIMER knob to confirm the hour setting.

3 Turn the EASY TIMER knob to increase or decrease the minutes setting by a minute at a time.

SP CLOCK   APC

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Recording TV programmes using the Easy Timer function (continued)

3 EASY TIMER Push the EASY TIMER knob to finish setting the clock.

The VCR enters the timer recording setting mode.

To continue the Easy Timer setting, go to step 2 in "Setting the Easy Timer" on page 9.

| SP | START |
| | APC |

To quit the Easy Timer setting mode without changing any settings, push the EASY TIMER knob repeatedly until the ⏲ indicator appears in the display window.

To set the timer and clock setting using the remote commander

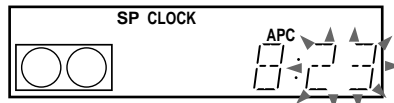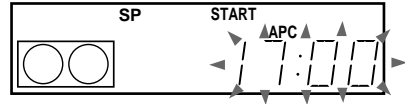You can also use the remote commander to set the Easy Timer and Easy Clock. The operations on the VCR and the remote commander correspond as follows:

To	Do this on the VCR	Do this on the remote commander
Confirm the setting and go to the next setting	Push the EASY TIMER knob	Press EASY TIMER
Change the time by 15 minutes (in START/STOP mode)	Turn the EASY TIMER knob or hold PROGRAM +/– down	Hold PROG +/– down
Change the time by one minute (in START/STOP mode)	Press PROGRAM +/–	Press PROG +/–
Select the programme	Turn the EASY TIMER knob or press PROGRAM +/–	Press PROG +/– or INPUT SELECT
Change the hour/minute by one hour/minute (in CLOCK mode)	Turn the EASY TIMER knob or press PROGRAM +/–	Press PROG +/–

You can also use the programme number buttons to set the clock, start and stop times, and the programme you want to record. Just press the programme number buttons to enter the hours and minutes. For example:

- To set the clock to "8:20", press 0, 8, EASY TIMER, 2, 0 and EASY TIMER in sequence.
- To set the start or stop time to "8:20", press 0, 8, 2, 0 and EASY TIMER in sequence.

If you make a mistake, re-enter the correct digits before pressing EASY TIMER.

12

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To stop recording

To stop the VCR while recording, press ■ STOP.

To check or change the timer setting

Push EASY TIMER knob repeatedly until the setting you want to check or change flashes. Then re-enter the new setting, if necessary. If you do not want to change any of the settings, push the EASY TIMER knob repeatedly until the ⏲ indicator appears in the display window.

You can also change the timer setting using the TIMER SET/CHECK menu. For details, see page 40 in the English Operating Instructions.

To cancel the timer setting

To cancel the Easy Timer setting while entering a setting, press CLEAR on the remote commander or press PROGRAM + and – on the VCR at the same time.

To use the VCR after setting the timer

To use the VCR before a timer recording begins, just press I/⏻. The ⏲ indicator turns off and the VCR switches on. Remember to press I/⏻ to reset the VCR to the timer recording standby mode after using the VCR.

You can also do the following tasks while the VCR is recording:

• Reset the counter.
• Display tape information on the TV screen.
• Check the timer settings.
• Watch another TV programme.

To watch the recorded programme right after recording with the Easy Timer

The SEARCH MODE indicator starts flashing when the VCR finishes the Easy Timer recording. To watch the recorded programme, push the EASY TIMER knob. The VCR turns on, starts searching, then automatically starts playback from the beginning of the recording. For details, see page 32 in the English Operating Instructions.

Recording TV programmes using the Easy Timer function (continued)

Tips
- To record from a source connected to the LINE-1 IN jacks, press INPUT SELECT or PROG +/– or turn the EASY TIMER knob to display "L" in the display window.
- To record NTSC signals, set the tape speed to SP or EP. To record in the EP mode, set the tape speed to "LP" in the display window.

Notes
- You cannot set the Easy Timer if eight programmes have already been set.
- You can set the timer for only one programme using the Easy Timer function. If you want to set the timer for other programmes, use the TIMER SET/CHECK menu. For details, see the next page.
- You cannot set the date using the Easy Timer function. Set the date using the CLOCK SET menu if you want to set the timer with the menu. For details, see page 3.
- The ⏱ indicator flashes in the display window when you complete the setting with no tape inserted.

14

Setting the timer manually

You can preset up to eight programmes at a time.

Before you start…

- Check that the VCR clock is set to the correct time.
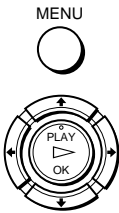- Insert a tape with its safety tab in place. Make sure the tape is longer than the total recording time.
- Turn on your TV and set it to the video channel.

I/(1)

INPUT SELECT

PROG +/–

MENU

OK
↑/↓/←/→

1

MENU

PLAY
▷
OK
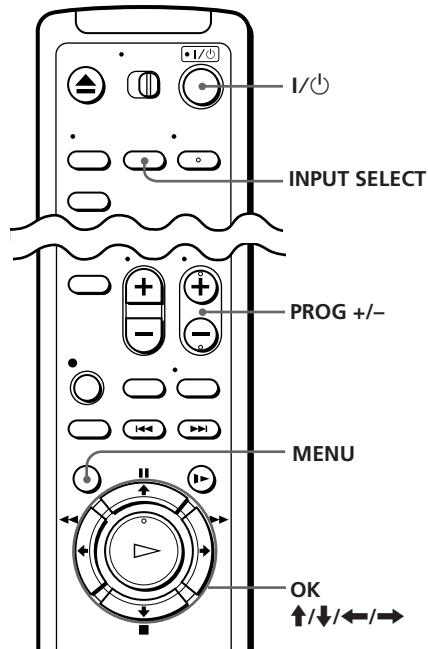
Press MENU and select TIMER SET/CHECK, then press OK.

TIMER SET / CHECK		25 . 12 TUE	
DATE	START	STOP	PROG
▶--.-	– : ––	– : ––	–– –
––.–	– : ––	– : ––	–– –
––.–	– : ––	– : ––	–– –
––.–	– : ––	– : ––	–– –
––.–	– : ––	– : ––	–– –
––.–	– : ––	– : ––	–– –
––.–	– : ––	– : ––	–– –
––.–	– : ––	– : ––	–– –

2

PLAY
▷
OK

Set the date, start and stop times, programme position, and tape speed:

1 Press ➡ to select each item in turn.
2 Press ↑/↓ to set each item.
To correct a setting, press ← to return to that setting and reset it.

TIMER SET / CHECK		25 . 12 TUE	
DATE	START	STOP	PROG
25 . 12 TUE	– : ––	– : ––	–– SP
––.–	– : ––	– : ––	–– –
––.–	– : ––	– : ––	–– –
––.–	– : ––	– : ––	–– –
––.–	– : ––	– : ––	–– –
––.–	– : ––	– : ––	–– –
––.–	– : ––	– : ––	–– –
––.–	– : ––	– : ––	–– –

To record the same programme every day or the same day every week, press ↓ while the date is flashing. For details, see "Daily/weekly recording" next page.

To record from a source connected to the LINE-1 IN jacks; press INPUT SELECT or PROG +/– to display "L" in the "PROG" position.

3 Press ➡ to confirm the setting.

The cursor (▶) appears at the beginning of the line. To enter another setting, move the cursor to the next line and repeat step 2.

4 Press OK.

5 Press I/⏻ to turn off the VCR.

The ⏲ indicator appears in the display window and the VCR stands by for recording.

To record from other equipment, leave the connected equipment switched on.

To stop recording

To stop the VCR while recording, press ■ STOP.

Daily/weekly recording

In step 2 on page 15, press ↓ to select the recording pattern. Each time you press ↓, the indication changes as shown below. Press ↑ to change the indication in reverse order.

the current date → **SUN-SAT (Sunday to Saturday)** → **MON-SAT (Monday to Saturday)** → **MON-FRI (Monday to Friday)** → **EVERY SAT ..... → EVERY MON → EVERY SUN → 1 month later → (dates count down) → the current date**

Tips
- To set the programme position, you can also use the PROG +/– or programme number buttons.
- To set the tape speed, you can also use the REC SPEED button.
- To record NTSC signals, set the tape speed to SP or EP. To record in the EP mode, set the tape speed to "LP".
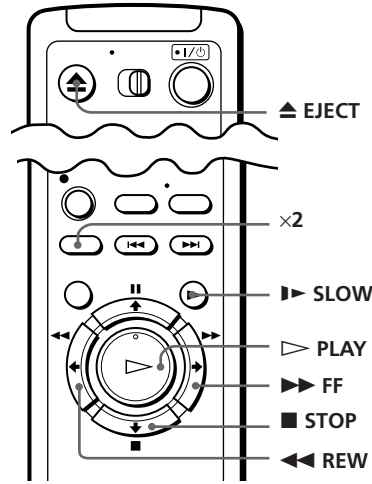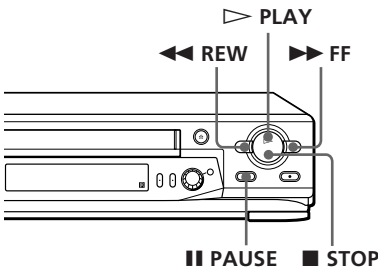
Note
- The ⏲ indicator flashes in the display window when you press I/⏻ with no tape inserted.

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Playing/searching at various speeds

▷ **PLAY**

◀◀ **REW**　▶▶ **FF**

II PAUSE　■ **STOP**

▲ **EJECT**

×**2**

I▶ SLOW

▷ **PLAY**

▶▶ **FF**

■ **STOP**

◀◀ **REW**

| Playback options	Operation
Play a tape	Press ▷ PLAY.
Stop play	Press ■ STOP.
Pause play	Press II PAUSE.
Resume play after pause	Press II PAUSE or ▷ PLAY.
Fast-forward/rewind	Press ▶▶ FF or ◀◀ REW during stop.
View the picture during fast-forward or rewind	During fast-forward, hold down ▶▶ FF. During rewind, hold down ◀◀ REW.
Play at high speed	• During playback, press ▶▶ FF or ◀◀ REW <u>on the remote commander</u>. • During playback, hold down ▶▶ FF or ◀◀ REW. When you release the button, normal playback resumes.
Play at twice the normal speed	During playback or pause, press ×2.
Play in slow motion	During playback or pause, press I▶ SLOW.
Play frame by frame	During pause, press ▶▶ FF or ◀◀ REW <u>on the remote commander</u>. Hold down the button to play one frame each second.
Rewind and start play	While the tape is stopped, hold down ◀◀ REW <u>on the VCR</u> and press ▷ PLAY <u>on the VCR</u>.
Eject the tape	Press ▲ EJECT.

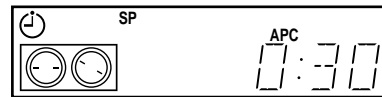**To resume normal playback**

Press ▷ PLAY.

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Setting the recording duration time

After you have started recording in the normal way, you can have the VCR stop recording automatically after a specified duration.
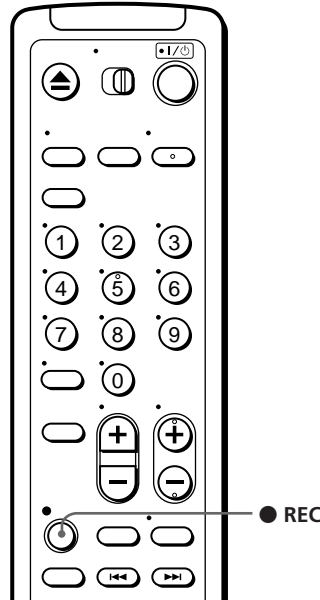
1 While recording, press ● REC.

The ⏲ indicator appears in the display window.

2 Press ● REC repeatedly to set the duration.

Each press advances the time in increments of 30 minutes.

> 0:30 → 1:00 – – – → 5:30 → 6:00 → Normal recording
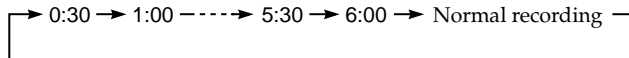
The tape counter decreases minute by minute to 0:00, then the VCR stops recording and turns off automatically.

To extend the duration

Press ● REC repeatedly to set to the new duration.

To cancel the duration

Press ● REC repeatedly until the ⏲ indicator turns off and the VCR returns to normal recording mode.
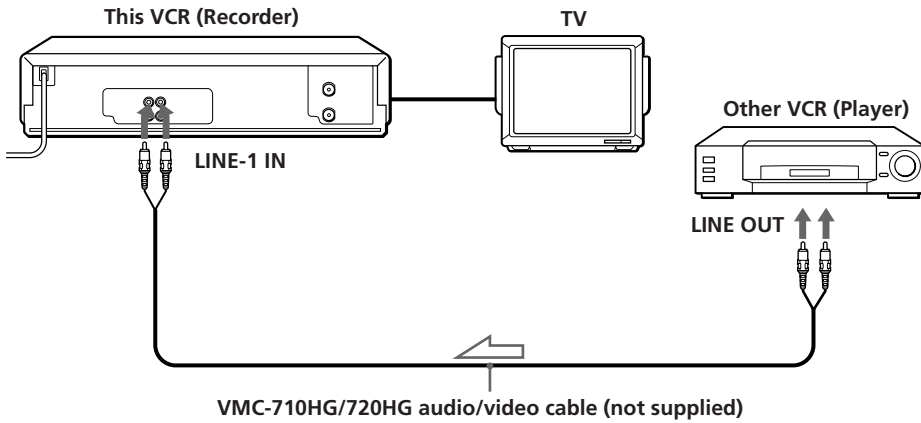
To stop recording

To stop the VCR while recording, press ■ STOP.

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Editing with another VCR

How to connect to record on this VCR

This VCR (Recorder)   **TV**

Other VCR (Player)

LINE-1 IN

LINE OUT

VMC-710HG/720HG audio/video cable (not supplied)

◁▱ **: Signal flow**

Tip
- Connect LINE-1 IN on this VCR to the line output jacks on the other VCR using a commercially available audio/video cable such as Sony VMC-710HG/720HG (not supplied). If the other VCR has the AUDIO L and R jacks, use a Sony VMC-910HG audio/video cable (not supplied).

Notes
- Make sure you connect the plugs to the jacks of the same colour.
- If you connect this VCR to both the LINE IN and LINE OUT jacks of the other VCR, select the input correctly to prevent a humming noise.
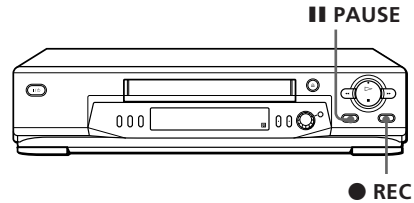
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Operation
(when recording on this VCR)

Before you start editing
- Turn on your TV and set it to the video channel.
- Press INPUT SELECT or PROG +/− to display "L" in the display window.
- Press REC SPEED to select the tape speed (SP or LP for the PAL system, and SP or EP for the NTSC system).

II PAUSE

● REC

1   Insert a source tape with its safety tab removed into the other (playback) VCR. Search for the point to start playback and set it to playback pause.

2   Insert a tape with its safety tab in place into this (recording) VCR. Search for the point to start recording and press II PAUSE.

3   Press ● REC on this VCR and set it to recording pause.

4   To start editing, press the II PAUSE buttons on both VCRs at the same time.

To stop editing

Press the ■ STOP buttons on both VCRs.

Tips
- To edit more precisely, press the II PAUSE buttons on the VCRs to release pause.
- To cut out unwanted scenes while editing, press II PAUSE on this VCR when an unwanted scene begins. When it ends, press II PAUSE again to resume recording.

Note
- If you start recording following the procedure above, the VCR will not start recording with the APC function. To record a tape with the APC function, press ● REC again during recording pause in step 3 so that the VCR analyses the tape. Then when you start recording in step 4, press II PAUSE after the APC indicator stops flashing. If you press II PAUSE before the APC indicator stops flashing, the APC function is cancelled.

Sony Corporation

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