

**SONY**<sup>®</sup>

3-858-368-11 (1)

# ***Video Cassette Recorder***

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Operating Instructions

Hi-Fi

**VHS**  
PAL NTSC

***SLV-KF295SV  
SLV-XF245SV***

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SLV-KF295SV/XF245SV 3-858-368-11 (1)

## WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

## Precautions

### Safety

- This unit operates on 110 – 240 V AC, 50/60 Hz. Check that the unit's operating voltage is identical with your local power supply.
- If anything falls into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.
- The unit is not disconnected from the mains as long as it is connected to the mains, even if the unit itself has been turned off.
- Unplug the unit from the mains if you do not intend to use it for an extended period of time. To disconnect the cord, pull it out by the plug, never by the cord.

### Installing

- Allow adequate air circulation to prevent internal heat buildup.
- Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation slots.
- Do not install the unit near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.
- Do not install the unit in an inclined position. It is designed to be operated in a horizontal position only.
- Keep the unit and cassettes away from equipment with strong magnets, such as microwave ovens or large loudspeakers.
- Do not place heavy objects on the unit.
- If the unit is brought directly from a cold to a warm location, moisture may condense inside the unit and cause damage to the video head and tape. When you first install the unit, or when you move it from a cold to a warm location, wait for about one hour before operating the unit.

## Caution

Television programmes, films, video tapes, and other materials may be copyrighted.

Unauthorized recording of such material may be contrary to the provisions of the copyright laws. Also, use of this recorder with cable television transmission may require authorization from the cable television transmitter and/or programme owner.

## Compatible colour systems

- This unit is designed to record and play back using the PAL, MESECAM, NTSC 3.58, and NTSC 4.43 colour systems. Recording of video sources based on other colour systems cannot be guaranteed.
- Tapes recorded with the NTSC colour system can be played back on this unit using a TV or a colour monitor for the PAL colour system.

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Getting Started

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## **Back cover**

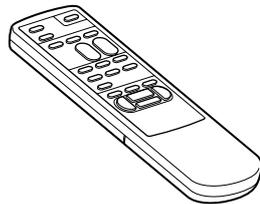
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## Step 1

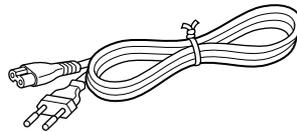
# Unpacking

Check that you have received the following items with the unit:

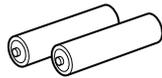
- Remote commander



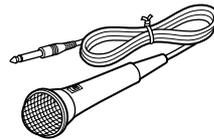
- Mains lead



- R6 (Size AA) batteries



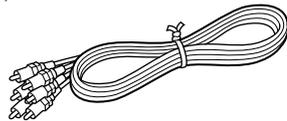
- Microphone (SLV-KF295SV only)



- Aerial cable



- Audio/video cable (3-phono to 3-phono)



## Checking your model name

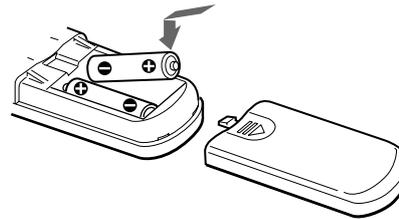
The instructions in this manual are for the 2 models: SLV-KF295SV and XF245SV. Check your model number by looking at the rear panel of your unit. The SLV-XF245SV is the model used for illustration purposes. Any difference in operation is clearly indicated in the text, for example, "SLV-KF295SV only."

## Step 2

# Setting up the remote commander

### Inserting the batteries

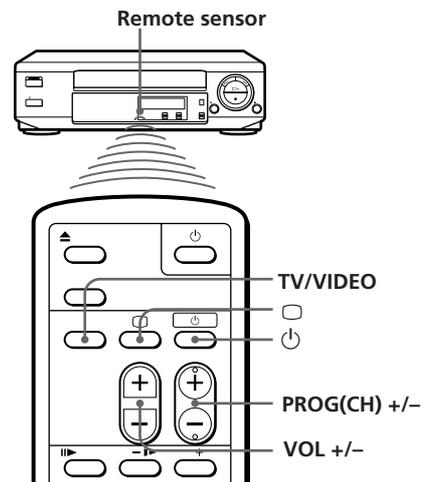
Insert two R6 (size AA) batteries by matching the + and - on the batteries to the diagram inside the battery compartment.



Getting Started

### Using the remote commander

You can use this remote commander to operate the unit and a Sony TV. To operate this unit, point at the remote sensor on the unit. To operate the TV, point at the remote sensor on the TV.



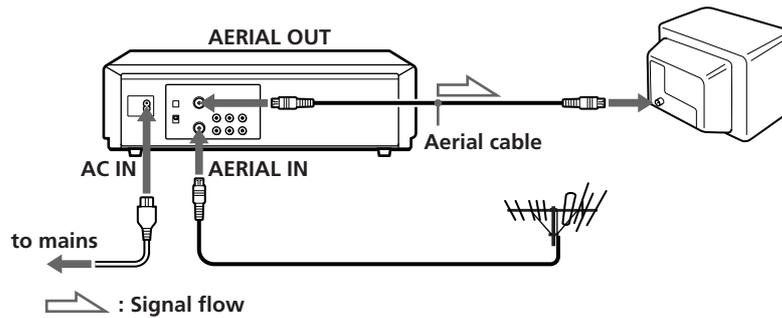
To	Press
Turn the TV to standby or active mode	
Turn on the TV power	
Increase (+) or decrease (-) the TV volume	VOL +/-
Change the TV programme position	PROG(CH) +/-
Select an input source of the TV either from aerial in or from line in	TV/VIDEO

#### Notes

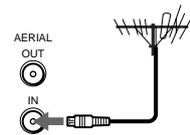
- With normal use, the batteries should last about three to six months.
- If you do not use the remote commander for an extended period of time, remove the batteries to avoid possible damage from battery leakage.
- Do not use a new battery with an old one.
- Do not mix different types of batteries.

## Step 3

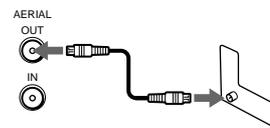
### Connecting the unit



- 1 Disconnect the aerial cable from your TV and connect it to AERIAL IN on the rear panel of the unit.



- 2 Connect AERIAL OUT of the unit and the aerial input of your TV using the supplied aerial cable.



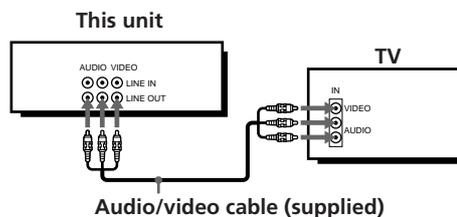
- 3 Connect AC IN of the unit to the mains using the supplied mains lead.



## Additional connections

### To a TV that has phono type audio/video input jacks

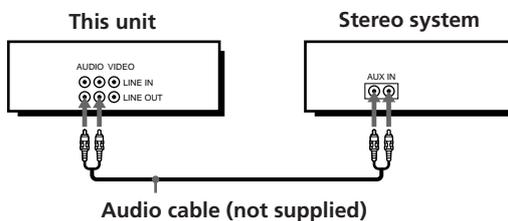
This additional connection improves picture and sound quality. Connect the TV as shown on the right.



Getting Started

### To a stereo system

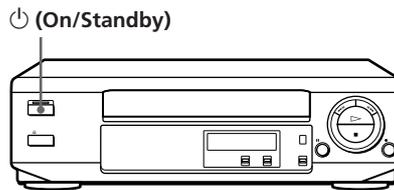
You can improve sound quality by connecting a stereo system as shown on the right.



## Step 4

### Tuning your TV to the unit

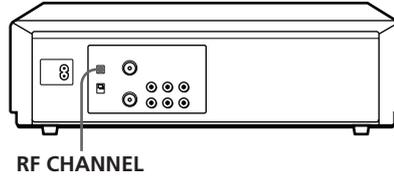
If you have connected your unit to the TV using the audio/video cable, skip this step.



- 1**  Press  (On/Standby) to turn on the unit.
- 2** Turn on your TV and select a programme position for video playback.  
Choose a channel between UHF 30 and 39 on the TV where there is no picture and no sound or only a steady rustling sound.  
This channel will now be referred to as the video channel.
- 3** Insert a tape recorded in the colour system matching your TV into the cassette compartment.  
The unit starts playing automatically if you insert a tape with its safety tab removed.
- 4** Press  PLAY on the unit.
- 5** Tune the TV until the video playback picture is clearly displayed on the TV screen.  
Refer to your TV manual for tuning instructions.  
You have now tuned your TV to the unit. From now on, whenever you want to play a tape, set the TV to the video channel.  
If the playback picture does not appear clearly, see "To obtain a clear playback picture" on page 9.

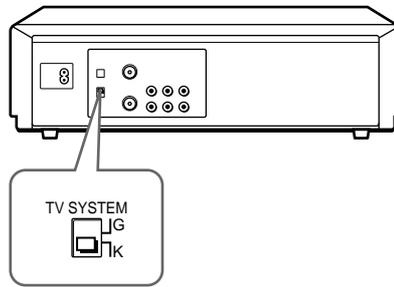
**To obtain a clear playback picture**

If the playback picture does not appear clearly in step 5 above, turn the RF CHANNEL screw on the rear panel of the unit with a screwdriver to a position where the TV clearly displays the playback picture.

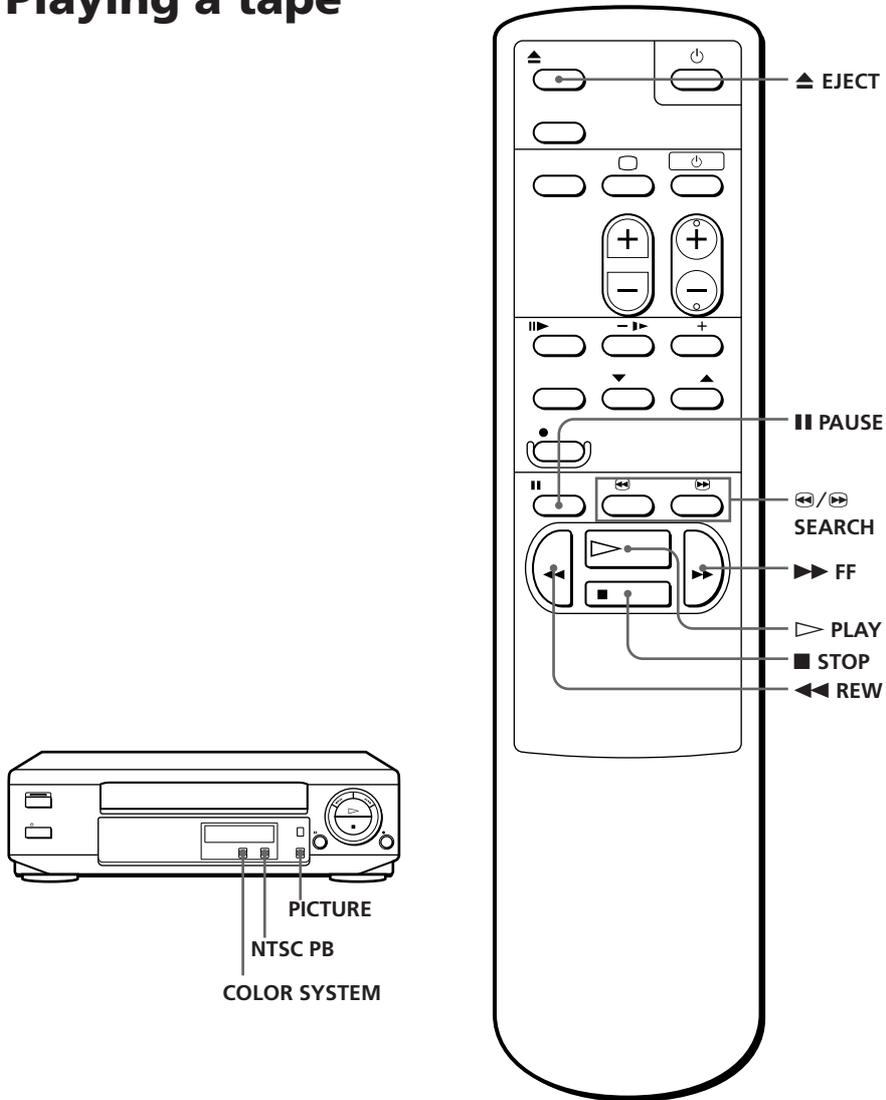


**Selecting the TV system**

For your TV to receive the correct signal from your unit, you must set the TV SYSTEM switch on the rear panel of the unit to either G (for system B/G) or K (for system D/K). If this switch is set to the wrong position, the sound will be distorted.

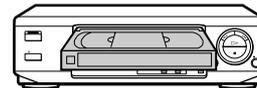


## Playing a tape



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

**2** Insert a tape.  
The unit turns on, and starts playing automatically if you insert a tape with its safety tab removed.



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**3**

Press ▷ PLAY.

When the tape reaches the end, it will rewind automatically.

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**Additional tasks**

To	Press
Stop play	■ STOP
Pause play	PAUSE
Resume play after pause	PAUSE or ▷ PLAY
Search forward	▶▶ FF or 🔍 SEARCH during playback
Search backward	◀◀ REW or 🔍 SEARCH during playback
Fast-forward the tape	▶▶ FF during stop
Rewind the tape	◀◀ REW during stop
Eject the tape	▲ EJECT

**To set the colour system**

If streaks appear during playback, set COLOR SYSTEM on the unit to conform to the system that the tape was recorded in. (Normally set the switch to AUTO.)

If your tape was recorded in	Set COLOR SYSTEM to
PAL	PAL/MESECAM
NTSC	NTSC
MESECAM	PAL/MESECAM

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**continued**

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## Playing a tape (continued)

### To play an NTSC-recorded tape

Set NTSC PB on the unit according to the colour system of your TV.

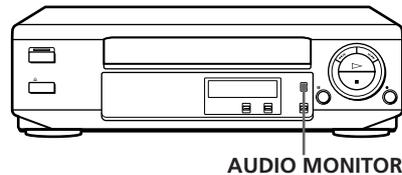
If your TV is	Set NTSC PB to
PAL	ON PAL TV
NTSC 4.43	NTSC 4.43
NTSC 3.58	NTSC 3.58

### Watching a rental tape

Set PICTURE on the unit to RENTAL PICTURE. Noise will be reduced on the playback picture. After watching the rental tape, set the switch back to NORMAL.

### Selecting the sound during playback

Press AUDIO MONITOR to select the desired sound. Each press of the button changes the display on the unit. When you play a tape recorded in stereo or with a bilingual sound track, the HiFi indicator on the unit lights up.

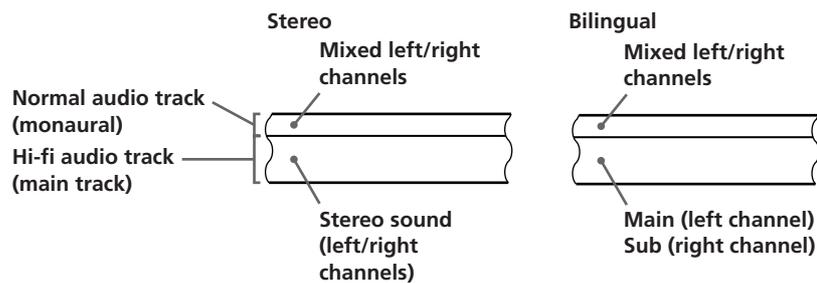


To listen to a		Press AUDIO MONITOR until the display window indicator shows
Stereo tape's	Bilingual tape's	
Stereo sound	Main and sub sounds	"L/R"
Left channel	Main sound	"L"
Right channel	Sub sound	"R"
Standard sound*	Standard sound*	No indication

\* The mixed sound of left and right channels (monaural)

### How sound is recorded on a video tape

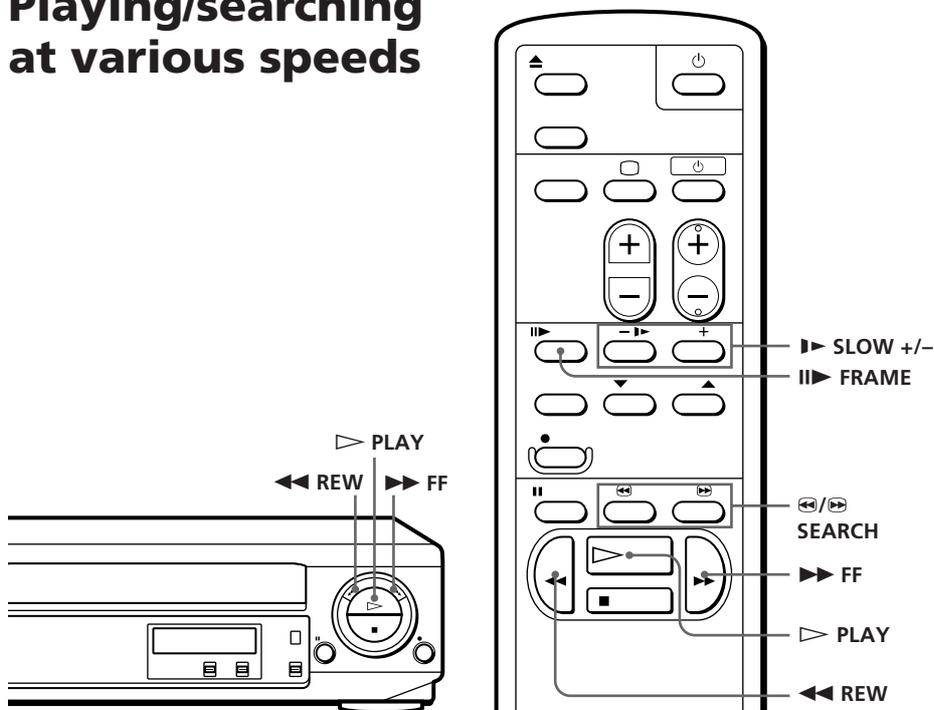
The unit records sound onto two separate tracks. Hi-fi audio is recorded onto the main track along with the picture. Monaural sound is recorded onto the normal audio track along the edge of the tape.



### Notes

- Depending on your TV, the following may occur while playing an NTSC-recorded tape:
  - the picture is black and white,
  - the picture shakes,
  - no picture appears on the TV screen,
  - black streaks appear horizontally on the TV screen, and
  - the colour density increases or decreases.
- To listen to playback sounds in stereo, you must use the AUDIO OUT connections.
- When you play a tape recorded in monaural, the sound is heard in monaural regardless of the AUDIO MONITOR setting.
- You cannot select the sound to listen to while recording.
- You can playback tapes recorded in the SP mode only.
- You can eject a tape even when the power is off. When you press **EJECT**, the unit turns on automatically. After ejecting the tape, the unit turns off again.
- When the pause mode lasts for more than approximately five minutes, the unit will automatically enter the playback mode.

## Playing/searching at various speeds



Playback options	Operation
Fast-forward/rewind	During stop, press ►► FF or ◀◀ REW.
View the picture during fast-forward or rewind	During fast-forward, hold ►► FF down. During rewind, hold ◀◀ REW down.
Play at high speed	During playback or pause, press ◀▶ SEARCH or ▶◀ SEARCH.
Play in slow motion	During playback or pause, press ► SLOW+/- . Press the +/- buttons to change the speed.
Play frame by frame	During pause, press ◻▶ FRAME to advance the picture one frame. Hold the button down to play one frame each second.
Rewind and start play	During stop, hold ◀◀ REW <u>on the unit</u> down and press ▷ PLAY <u>on the unit</u> .

---

**To resume normal playback**

Press ▷ PLAY.

**Tip**

- If the picture shakes while in the still mode, adjust the picture using ▼/▲ TRACKING NORMAL/SLOW STILLADJUST on the unit.

**Notes**

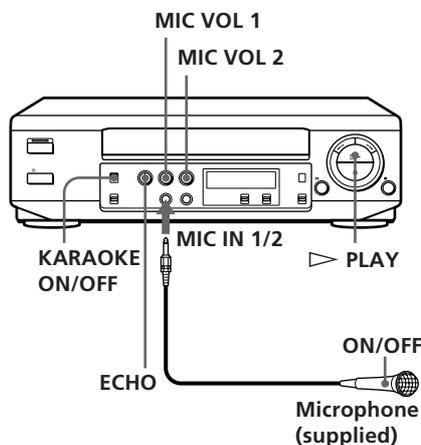
- Streaks or snow cannot be eliminated completely in the various playback operations.
- The sound is muted during these operations.

## Karaoke sing-along (SLV-KF295SV only)

You can sing along with a karaoke videotape, a TV broadcast, or music played back on equipment connected to the LINE IN jacks on the rear panel of the unit. You can sing duets if you use an extra microphone (not supplied).

### Before you start...

- Turn on your TV and set it to the video channel.
- Connect the supplied microphone to the MIC IN 1 jack. To sing duets, connect the optional microphone to the MIC IN 2 jack.



### Singing along with karaoke video tapes

- 1** Set KARAOKE ON/OFF to ON.
- 2** Insert a karaoke video tape.  
The unit turns on and starts playing automatically if you insert a tape with its safety tab removed.
- 3** Press ▷ PLAY.  
If you want to playback a specific song, see "Searching with the AMS function" on page 17.
- 4** Set the ON/OFF switch on the microphone to ON.  
Now you can enjoy playing karaoke.

### To adjust the microphone volume

Turn the MIC VOL 1 control for the microphone connected to MIC IN 1.  
Turn the MIC VOL 2 control for the microphone connected to MIC IN 2.  
Setting the MIC VOL 1 and/or 2 control(s) to the centre position provides the best microphone volume.

### To control the echo effect

Turn the ECHO control. This controls both microphones' echo effect in the same way.

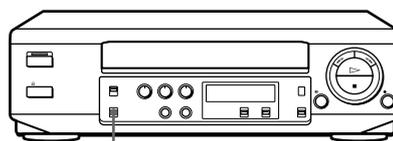
To get the best effect, adjust the microphone volume to a slightly higher level than the music volume.

## Reducing the playback vocals (Karaoke Pon)

You can use ordinary music sources with vocals for karaoke with this function. Use hi-fi stereo music sources.

Set KARAOKE PON to ON.

The singer's voice will be reduced.



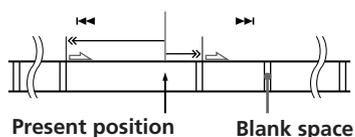
KARAOKE PON

### To cancel Karaoke Pon

Set KARAOKE PON to OFF.

## Searching with the AMS function

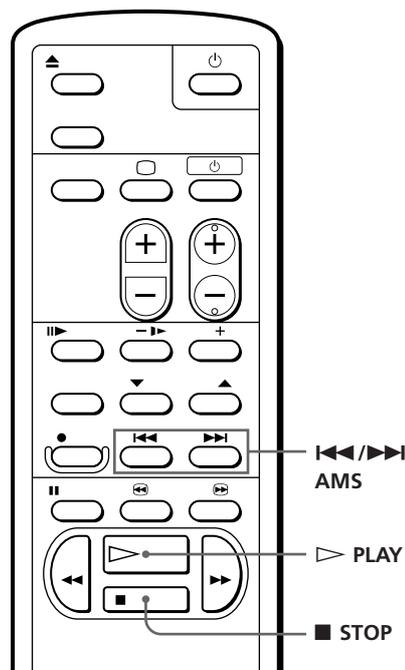
The AMS (Automatic Music Sensor) function searches for the beginning of the next or previous song by detecting a blank space between songs.



- 1 Press ■ STOP.
- 2 Press ◀◀/▶▶ AMS.
  - To locate the beginning of the next song, press ▶▶ AMS.
  - To locate the beginning of the previous song, press ◀◀ AMS.

The unit starts searching and stops automatically when it locates the beginning of the next or previous song.

- 3 Press ▷ PLAY to start playback.



continued

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## **Karaoke sing along (SLV-KF295SV only) (continued)**

### **Tip**

- When you sing along with music played back on equipment connected to the LINE IN jacks on the unit, play the music source and follow steps 1 and 4 on page 16.

### **Notes**

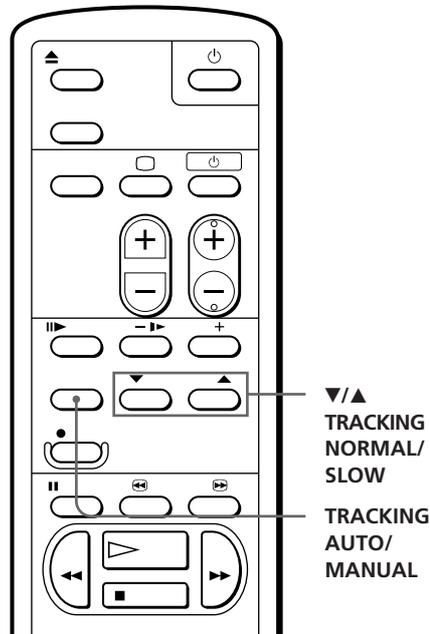
- If the sound is reproduced through a stereo amplifier, turn down the volume of amplifier before operation.
- If streaks appear during playback, select the colour system that the tape was recorded in (see "To set the colour system" on page 11).
- If feedback occurs, turn down the microphone or TV volume, or move the microphone away from the speakers.
- Karaoke Pon does not work with the following tapes:
  - tapes on which different vocal sounds are recorded on the left and right channels, such as a duet;
  - tapes recorded monaurally; or
  - tapes on which sound sources are recorded with strong echo effects and chorus effects.
- The AMS may not work correctly when:
  - the tape quality is poor,
  - a song is very short (less than 40 seconds),
  - the interval between songs is very short (less than 6 seconds),
  - a high level sound is recorded between songs or at the beginning of a song,
  - there are low level passages or passages without sound in a song,
  - narration is recorded at the beginning of a song,
  - fade-in or fade-out recording is made on the tape, or
  - AMS starts from the very beginning of the tape or near an interval between songs.

## Adjusting the picture

### Adjusting the tracking

Although the unit automatically adjusts the tracking when playing a tape, distortion may occur if the tape was recorded in poor condition. If so, manually adjust the tracking.

Press ▼/▲ TRACKING NORMAL/SLOW to obtain the best possible picture. The distortion should disappear as you press one of the two buttons. If you cannot get a clear picture with manual adjustment, press TRACKING AUTO/MANUAL to return to automatic adjustment.



### About OPC

OPC (Optimum Picture Control) automatically improves playback quality by adjusting the unit to the condition of the video heads and tape.

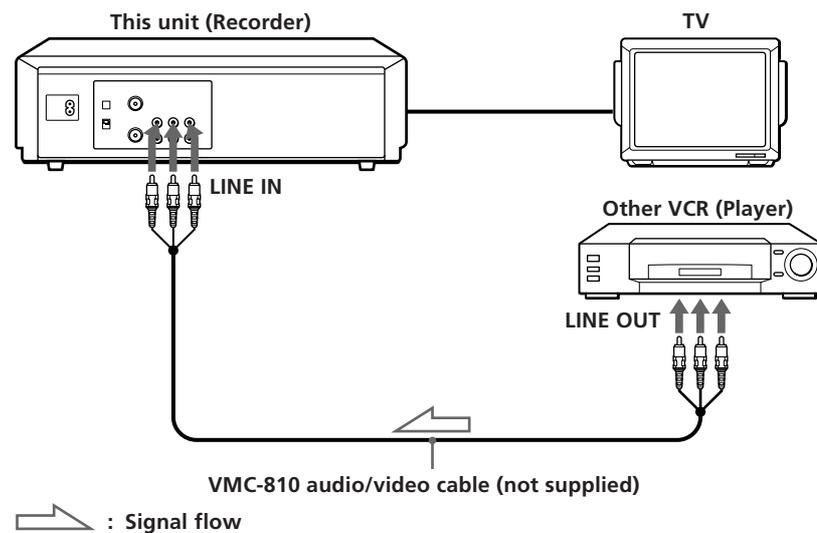
The OPC function automatically works on all types of tapes, including rental tapes. You can play a tape using the OPC function even if the tape was not recorded with it.

### Notes

- The auto tracking function works automatically when you play back a tape just after inserting it.
- Sufficient picture quality may not be obtained when playing back tapes recorded on another VCR or tapes in poor condition.
- When a tape recorded with the copyguard system is played back, intermittent distortion may appear in the upper portion of the picture. However, this is not a malfunction of the unit.

## Editing with another VCR

### How to connect to record on this unit



#### Tip

- If the other VCR is a monaural type, use a connecting cable like the Sony VMC-910MS.

#### Notes

- Make sure you connect the plugs to jacks of the same colour.
- When connecting the units, do not simultaneously connect the LINE IN and LINE OUT jacks on your unit with the other VCR. A humming noise may occur if you do this.

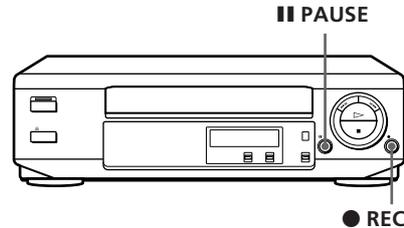
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## Operation (when recording on this unit)

You can make a copy of a tape using this unit for recording or playback. The unit cannot record TV programmes directly since it does not have a TV tuner.

### Before you start editing

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



- 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) unit. Search for the point to start recording and press **PAUSE**.
- 3 Press **REC** on this unit to set it to recording pause.
- 4 To start editing, press the **PAUSE** buttons on both units at the same time.

### To stop editing

Press the **STOP** buttons on both units.

### To save a recording

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



### Auto head cleaner

The unit incorporates an auto head cleaner which cleans the video heads when a tape is loaded or unloaded. When the heads are not sufficiently clean, even after a tape has been loaded/unloaded several times, use the Sony V-25CL video head cleaning cassette.

### Tips

- To edit more precisely, press the **PAUSE** buttons on the units to release pause.
- To cut out unwanted scenes while editing, press **PAUSE** on this unit when an unwanted scene begins. When that scene ends, press **PAUSE** again to resume recording.

### Note

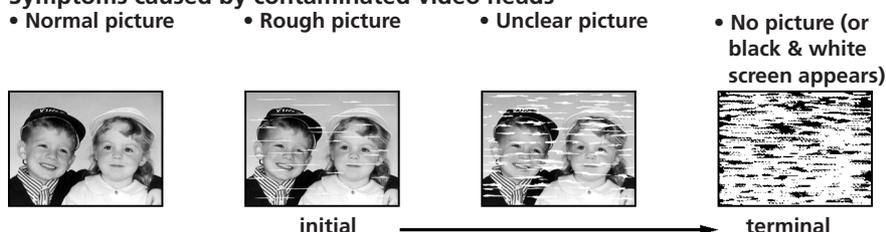
- You can record tapes only in SP mode.

## Troubleshooting

If you have any questions or problems not covered below, please consult your nearest Sony service facility.

	Symptom	Remedy
Power	The ⏻ (On/Standby) switch does not function.	<ul style="list-style-type: none"> <li>• Connect the mains lead securely.</li> </ul>
	The power is turned on but the unit does not operate.	<ul style="list-style-type: none"> <li>• Moisture condensation occurs. Turn the power off, unplug the mains lead and leave the unit to dry for over an hour.</li> </ul>
	The VCR enters standby mode or turns off automatically.	<ul style="list-style-type: none"> <li>• The auto safety system is triggered to protect your tape and the unit's mechanism when there is something wrong with the tape or when the mechanism is overloaded. Press ⏻ to restart the unit. If the unit does not work after pressing ⏻ again, disconnect the mains lead from the mains. Wait for at least 15 seconds. Then reconnect mains, and press ⏻ again. If the unit still does not work, please consult your nearest Sony service facility.</li> </ul>
Playback	The playback picture does not appear on the TV screen.	<ul style="list-style-type: none"> <li>• Make sure the TV is set to the video channel. If you are using a monitor, set it to video input.</li> </ul>
	The picture is not clear.	<ul style="list-style-type: none"> <li>• Adjust the tracking with the ▼/▲ TRACKING NORMAL/SLOW buttons.</li> <li>• Make sure the COLOR SYSTEM switch is set to the position corresponding to the colour system which the tape was recorded with.</li> <li>• The video heads are dirty (see below). Clean the video heads using the Sony V-25CL video head cleaning cassette. If this cleaning cassette is not available in your area, have the heads cleaned at your nearest Sony service facility (a standard service charge will be required). Do not use a commercially available wet-type cleaning cassette, as it may damage the video heads.</li> <li>• The video heads may have to be replaced. Consult your local Sony service facility for more information.</li> </ul>
	The picture rolls vertically during picture search.	<ul style="list-style-type: none"> <li>• Adjust the vertical hold control on the TV or monitor.</li> </ul>
	The picture has no sound.	<ul style="list-style-type: none"> <li>• The tape is defective. Use a new tape.</li> </ul>

### Symptoms caused by contaminated video heads



	Symptom	Remedy
Recording	The tape starts playing as soon as it is inserted.	<ul style="list-style-type: none"> <li>The safety tab has been removed. To record on this tape, cover the tab hole.</li> </ul>
	The tape is ejected when you press ● REC.	<ul style="list-style-type: none"> <li>Check that the safety tab has not been removed.</li> </ul>
	The microphone sound is distorted. (SLV-KF295SV only)	<ul style="list-style-type: none"> <li>The MIC VOL control is set too high.</li> </ul>
Others	No tape can be inserted.	<ul style="list-style-type: none"> <li>Check that a tape isn't already in the tape compartment.</li> </ul>
	The remote commander does not function.	<ul style="list-style-type: none"> <li>Make sure you are pointing the remote commander at the remote sensor on the unit.</li> <li>Replace all the batteries in the remote commander with new ones if they are weak.</li> </ul>
	The unit needs to be cleaned.	<ul style="list-style-type: none"> <li>Clean the cabinet, panel, and controls with a dry soft cloth, or a soft cloth slightly moistened with a mild detergent solution. Do not use any type of solvent, such as alcohol or benzine.</li> </ul>

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# Specifications

## System

RF output signal  
UHF channels 30 to 39  
Aerial out  
75-ohm asymmetrical aerial socket

## Inputs and outputs

LINE IN  
VIDEO IN, phono jack (1)  
Input signal: 1 Vp-p, 75 ohms,  
unbalanced, sync negative  
AUDIO IN, phono jack (2)  
Input level: 327 mVrms  
Input impedance: more than 47 kilohms  
LINE OUT  
VIDEO OUT, phono jack (1)  
Output signal: 1 Vp-p, 75 ohms,  
unbalanced, sync negative  
AUDIO OUT, phono jack (2)  
Standard output: 327 mVrms  
Load impedance: 47 kilohms  
Output impedance: less than 10 kilohms  
Microphone input  
MIC IN 1/2 (2)  
more than 3 kilohms, 1.84 mVrms

## General

Power requirements  
110 – 240 V AC, 50/60 Hz  
Power consumption  
12W (SLV-KF295SV)  
10 W (SLV-XF245SV)  
Operating temperature  
5°C to 40°C  
Storage temperature  
–20°C to 60°C  
Dimensions  
Approx. 355 x 102 x 283.5 mm (w/h/d)  
including projecting parts and controls  
Mass  
Approx. 3.8 kg

## Supplied accessories

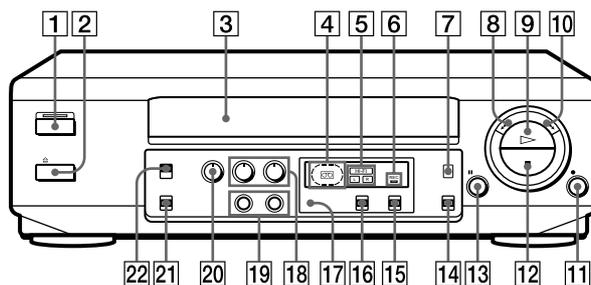
Remote commander (1)  
R6 (Size AA) batteries (2)  
Aerial cable (1)  
Mains lead (1)  
Audio/video cable (3-phono to 3-phono)  
Microphone (1) (SLV-KF295SV only)

Design and specifications are subject to change without notice.

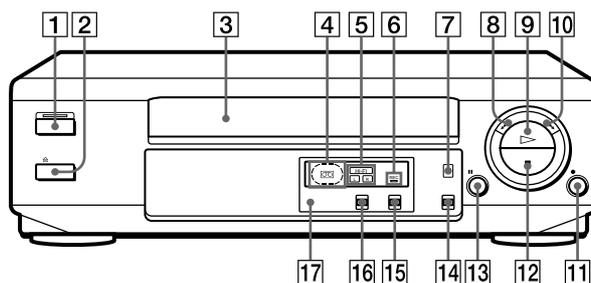
## Index to parts and controls

Refer to the pages indicated in parentheses ( ) for details.

### Front panel (SLV-KF295SV)



### Front panel (SLV-XF245SV)



- |    |                                     |    |                                  |
|----|-------------------------------------|----|----------------------------------|
| 1  | ⏻ (On/Standby) switch/indicator (8) | 14 | PICTURE switch (12)              |
| 2  | ⏏ EJECT button (11)                 | 15 | NTSC PB switch (12)              |
| 3  | Tape compartment                    | 16 | COLOR SYSTEM switch (11)         |
| 4  | Tape operation indicators           | 17 | Remote sensor (5)                |
| 5  | HiFi L/R indicators (12)            |    | (SLV-KF295SV only)               |
| 6  | REC (recording) indicator           | 18 | MIC VOL 1/2 controls (16)        |
| 7  | AUDIO MONITOR button (12)           | 19 | MIC IN 1/2 jacks (16)            |
| 8  | ⏮ REW button (11, 14)               | 20 | ECHO control (16)                |
| 9  | ▶ PLAY button (11)                  | 21 | KARAOKE PON (ON/OFF) switch (17) |
| 10 | ⏭ FF button (11, 14)                | 22 | KARAOKE (ON/OFF) switch (16)     |
| 11 | ● REC button (21)                   |    |                                  |
| 12 | ■ STOP button (11)                  |    |                                  |
| 13 | ⏸ PAUSE button (11)                 |    |                                  |

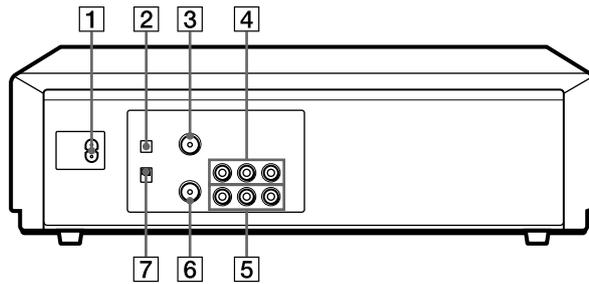
**continued**

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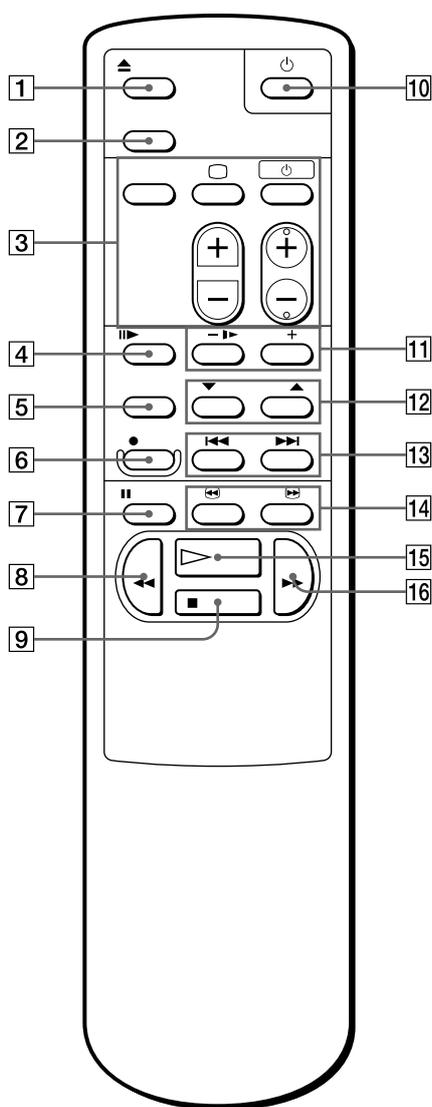
***Index to parts and controls (continued)***

**Rear panel**



- |   |   |
|---|---|
| <b>1</b> AC IN connector (6)                | <b>5</b> LINE OUT VIDEO/AUDIO L/R jacks (7) |
| <b>2</b> RF CHANNEL screw (9)               | <b>6</b> AERIAL IN connector (6)            |
| <b>3</b> AERIAL OUT connector (6)           | <b>7</b> TV SYSTEM switch (9)               |
| <b>4</b> LINE IN VIDEO/AUDIO L/R jacks (20) |   |

## Remote commander (e.g. SLV-KF295SV)



- 1 ▲ EJECT button (11)
- 2 TV/VTR button (*This button doesn't work for this unit*)
- 3 TV buttons (Only for TV) (5)  
TV/VIDEO  
□ (TV power)  
⏻ (Power standby)  
VOL +/-  
PROG (CH) +/-
- 4 ⏮ FRAME button (14)
- 5 TRACKING AUTO/MANUAL button (19)
- 6 ● REC button (21)
- 7 ⏸ PAUSE button (11)
- 8 ⏮ REW button (11, 14)
- 9 ■ STOP button (11)
- 10 ⏻ (On/Standby) switch (8)
- 11 ⏭ SLOW +/- buttons (14)
- 12 ▼/▲ TRACKING NORMAL/SLOW STILL ADJUST buttons (19)
- 13 ⏮/⏭ AMS buttons (17) (SLV-KF295SV only)
- 14 ⏪/⏩ SEARCH buttons (11, 14)
- 15 ▷ PLAY button (11)
- 16 ⏭ FF button (11, 14)

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