

Video Cassette Player

Operating Instructions



Hi-Fi

SLV-KH9ME/PS

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.

Mains lead must only be changed at a qualified service shop.

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 lead, pull it out by the plug, never by the lead.

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 three hours 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 (B/G and D/K), MESECAM (B/G and D/K), or NTSC colour systems. Recording of video sources based on other colour systems cannot be guaranteed.

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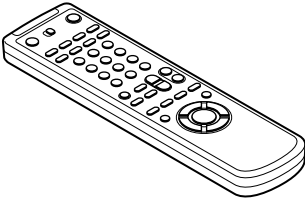
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Step 1

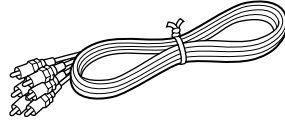
Unpacking

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

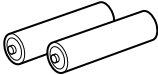
- Remote commander



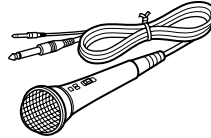
- Audio/video cable (3-phono to 3-phono)



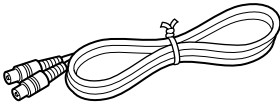
- R6 (size AA) batteries



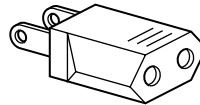
- Microphone



- Aerial cable



- Plug adaptor (SLV-KH9ME only)



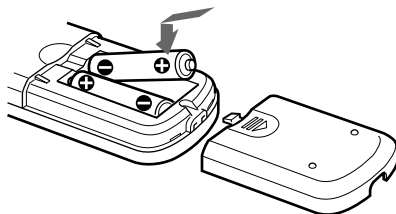
Step 2

Setting up the remote commander


Inserting the batteries

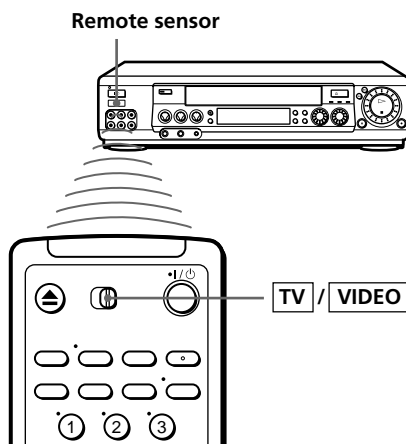
Insert two R6 (size AA) batteries by matching the + and - on the batteries to the diagram inside the battery compartment.

Insert the negative (-) end first, then push in and down until the positive (+) end clicks into position.



Using the remote commander

You can use this remote commander to operate this unit and a Sony TV. Buttons on the remote commander marked with a dot (•) can be used to operate your Sony TV. If the TV does not have the  symbol near the remote sensor, this remote commander will not operate the TV.



To operate	Set TV / VIDEO to
the unit	VIDEO and point at the remote sensor on the unit
a Sony TV	TV and point at the remote sensor on the TV

continued

Step 2 : Setting up the remote commander (continued)

Notes

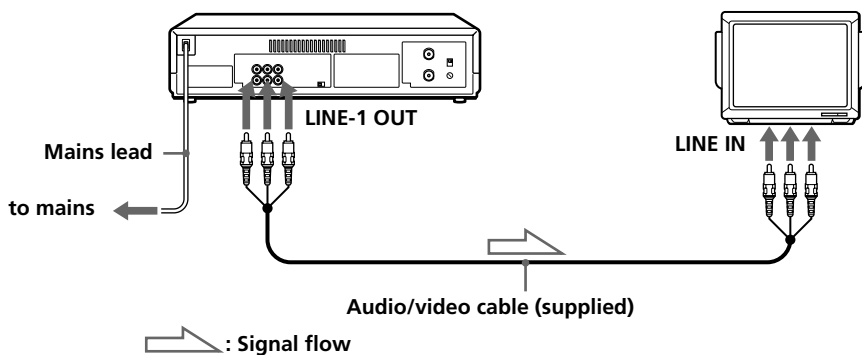
- The TV/VIDEO button selects the input source of the TV from aerial in or line in. The button does not control this unit.
- With normal use, the batteries should last about three to six months.
- If you do not use the remote commander for an extended period of time, remove the batteries to avoid possible damage from battery leakage.
- Do not use a new battery with an old one together.
- Do not use different types of batteries together.
- Some buttons may not work with certain Sony TVs.

Step 3

Connecting the unit

To a TV that has audio/video input jacks

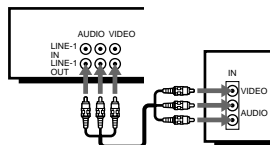
This connection improves picture and sound quality and is necessary if you want to use the Trinitron TV Synchro Play function. If your TV does not have audio/video input jacks, skip this step and go to page 9.



1

Connect LINE-1 OUT of the unit to the line input jacks of your TV using the supplied audio/video cable.

To use the Trinitron TV Synchro Play function, connect to the VIDEO-1 IN jacks if your TV has two or more inputs.



2

Connect the mains lead to the mains.

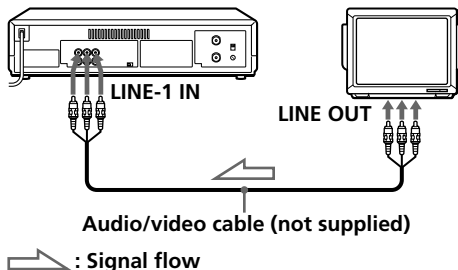
continued

Step 3 : Connecting the unit (continued)

Additional connection

To a TV that has audio/video output jacks

You can record a TV programme showing on a TV. Connect LINE-1 IN of the unit to the TV as shown on the right. For details on recording, see “Recording TV programmes” on page 18. When connecting the LINE-1 IN and LINE-1 OUT jacks on the unit to your TV at the same time, follow the procedure below to set up the unit (see page 31).



- 1 Press MENU.
- 2 Press \uparrow/\downarrow to move the cursor (\blacktriangleright) to SET UP MENU and press OK.
- 3 Press $\uparrow/\downarrow/\leftarrow/\rightarrow$ to move the cursor (\blacktriangleright) to CONNECT L1, then select TV.

SET UP MENU		
BUZZER	•ON	OFF
DIMMER	ON	•OFF
AUDIO MIX	ON	•OFF
▶CONNECT L1	•TV	OTHER
APC	•ON	OFF
PAL / MESECAM		
	•AUTO	PAL MESECAM
SELECT	: [\blacktriangle \blacktriangledown]	
SET	: [\blacktriangle \blacktriangledown]	

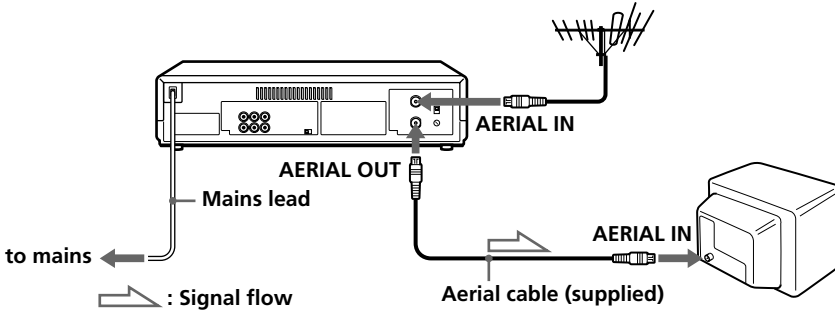
- 4 Press OK.

Note

- When you connect the LINE-1 IN jacks of the unit to other equipment, set CONNECT L1 to OTHER.

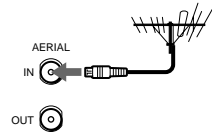
To a TV that does not have audio/video input jacks

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



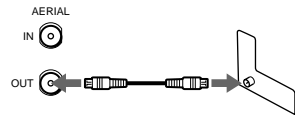
1

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 the mains lead to the mains.

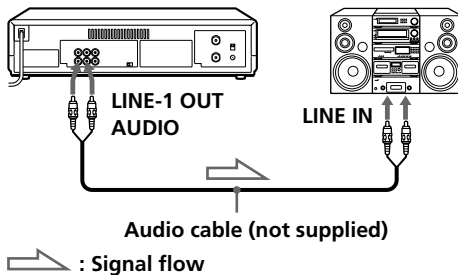
continued

Step 3 : Connecting the unit (continued)

Additional connections

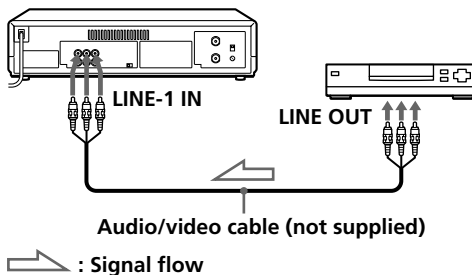
To a stereo system

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



To a satellite tuner

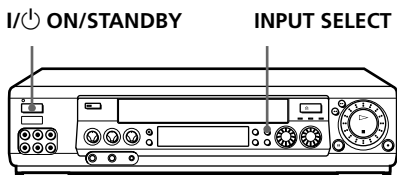
You can record programmes from other equipment such as a satellite tuner.




Step 4

Tuning your TV to the unit

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



-
- 1**  Press I/⏻ ON/STANDBY to turn on the unit.

-
- 2**  Press INPUT SELECT repeatedly until "LINE 2" appears in the display window.



-
- 3** Turn on your TV and select a programme position for the video playback.

Choose a channel between UHF 30 and 39 on the TV, where there is no picture and no sound or only a standby rustling sound. This channel will now be referred to as the video channel.

continued

Step 4 : Tuning your TV to the unit (continued)

4

Tune the TV so that a blue screen appears on the TV screen.

Refer to your TV manual for tuning instructions.

You have now tuned your TV to the unit. Whenever you want to play a tape, set the TV to the video channel.

If the blue screen does not appear clearly, see “To obtain a clear blue screen” below.

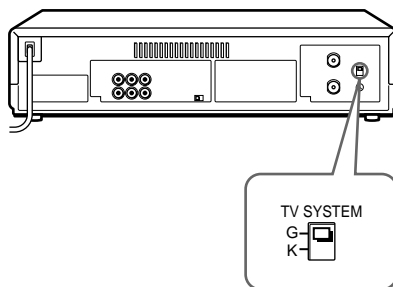
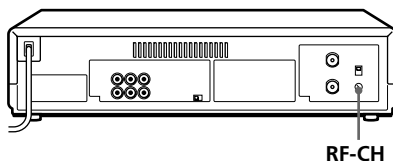
To obtain a clear blue screen

If the blue screen does not appear clearly in step 4 above, turn the RF-CH screw at the rear of the unit with a screw driver to a position where the TV clearly displays the blue screen.

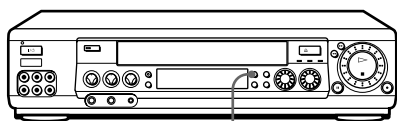
To set another RF channel number on the VCR, select a channel number that does not receive a broadcast signal in your area and is clear of interference from other channels.

To select the TV system

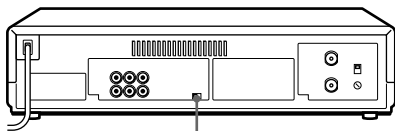
For your TV to receive the correct signal from your unit, you must set the TV SYSTEM switch at the rear of the unit to either K (for system D/K) or G (for system B/G). If this switch is set to the wrong position, the sound will be distorted.



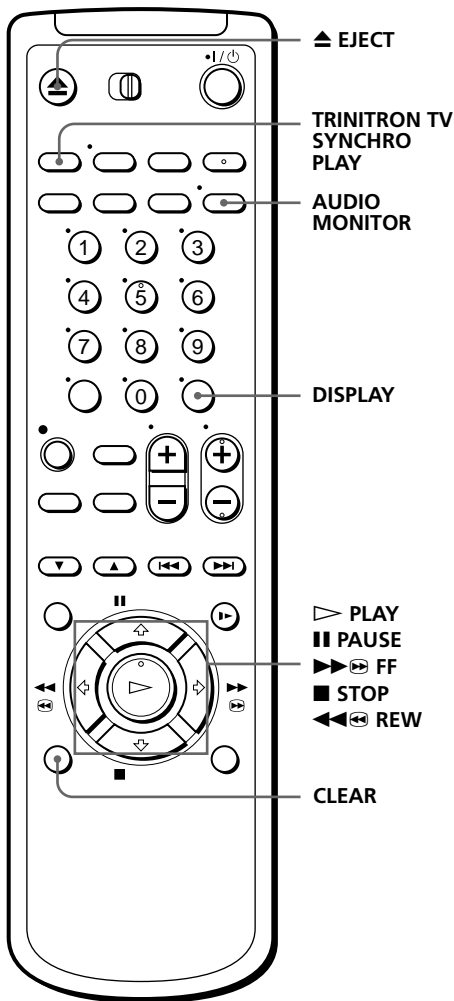
Playing a tape



COLOR SYSTEM



NTSC PB switch



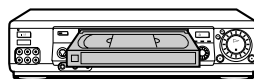
1

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.



continued

Playing a tape (continued)






3



Press  PLAY.

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

Additional tasks

To	Press
Stop play	■ STOP
Pause play	PAUSE
Resume play after pause	PAUSE or  PLAY
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, press COLOR SYSTEM on the unit to conform to the system that the tape was recorded in. (Normally, the colour system is correctly set whenever the tape is inserted.)

If your tape was recorded in	Press COLOR SYSTEM until the indicator below appears in the display window.
PAL	PAL
MESECAM	PAL
NTSC	NTSC

To play an NTSC-recorded tape

Set NTSC PB at the rear of 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

To use the time counter

At the point on the tape that you want to find later, press CLEAR. The counter in the display window resets to “0:00:00.” Search for the point afterwards by referring to the counter.



To display the counter on the TV screen, press DISPLAY.

To select the sound during playback

Press AUDIO MONITOR to select the sound you want. When a stereo or bilingual programme is received, the STEREO indicator appears in the display window.

Stereo programme

To listen to	On-screen display
Stereo	STEREO
Left channel	L ch
Right channel	R ch
Standard sound*	No indicator

* Usually the mixed sound of the left and right channels

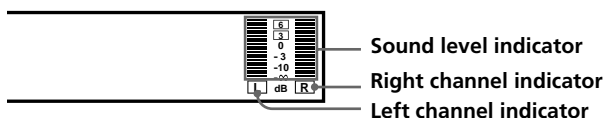
Bilingual programme

To listen to	On-screen display
Main	L ch
Sub	R ch
Main and sub	STEREO
Standard sound*	No indicator

* Usually the main sound (monaural)

To check the audio channel and sound level

You can check the audio channel and sound level visually with the indicators in the display window.



continued

Playing a tape (continued)

Notes

- When you play back a tape recorded in the PAL or MESECAM colour system, streaks may appear even if the colour system setting is set to PAL. If so, select the colour system, PAL or MESECAM in the PAL/MESECAM option of the SET UP MENU. (For details, see page 31.)
- The counter resets to “0:00:00” whenever a tape is reinserted.
- The counter stops counting when it comes to a portion with no recording.
- If a tape has portions recorded in both PAL and NTSC systems, the time counter reading will not be correct. This is due to the difference between the counting cycles of the two colour systems.
- Depending on your TV, the following may occur while playing an NTSC-recorded tape:
 - the picture becomes black and white,
 - the picture shakes,
 - no picture appears on the TV screen,
 - black streaks appear horizontally on the TV screen,
 - the colour density increases or decreases.
- To listen to playback sounds in stereo, you must use the AUDIO OUT connections.
- Tapes recorded on other VCRs in the LP mode of NTSC system can be played back on this unit, but the picture quality cannot be guaranteed.
- While setting the menu on the TV screen, you cannot use the ▷ PLAY, ■ PAUSE, ►► FF, ◀◀ REW, ■ STOP buttons, or click shuttle ring.
- If the AUDIO MONITOR button does not function, check that AUDIO MIX in the SET UP MENU is set to OFF.

Turning on the unit and TV, and starting playback automatically (Trinitron TV Synchro Play)

You can only use this function if your TV is made by Sony (Trinitron TV).

How to connect to use this function

Connect the unit and TV with the audio/video cable. (See “To a TV that has audio/video input jacks” on page 7.) Be sure to connect the audio/video cable to the VIDEO-1 IN jacks on the TV if the TV has two inputs or more. The TV must be placed where it will respond to the remote commander while you are pointing it at the unit.

Operation

Make sure that the TV's power is in standby mode.

Press TRINITRON TV SYNCHRO PLAY and hold the remote commander in place for about two seconds.

The unit and TV turn on, and the TV is set to the video channel. If there is a tape in the unit, playback starts automatically.

Notes

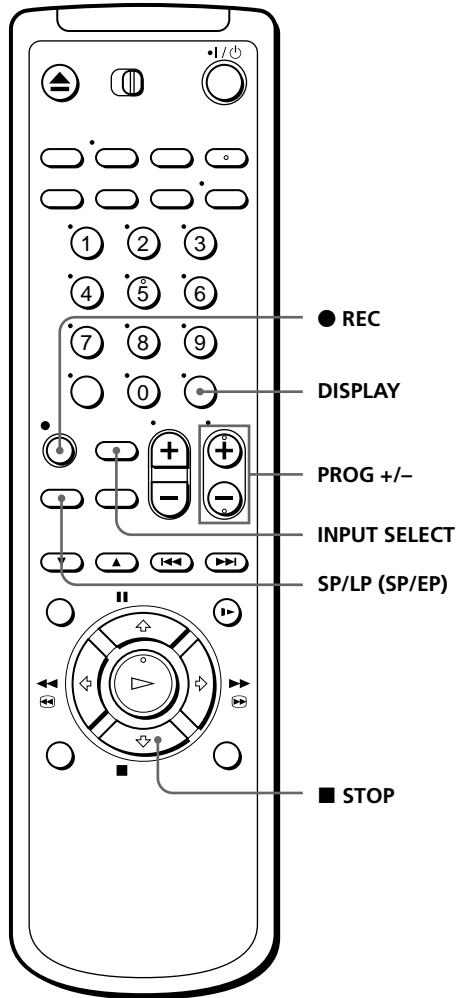
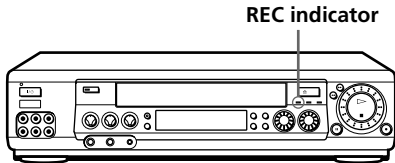
- If the Trinitron TV Synchro Play function does not work properly:
 - Wait a few moments, and press the button again.
 - Replace both of the batteries with new ones, and press the button again.Note that this function may not operate some Sony TVs because of the remote commander's signal limitations.
- Do not press TRINITRON TV SYNCHRO PLAY while playing back a video tape. If you do so, the TV's input source will momentarily switch to the TV's tuner.

Recording TV programmes

You can record TV programmes from your TV by connecting the TV to the unit's LINE-1 IN jacks.

Before you start...

- Connect the LINE-1 IN jacks of the unit to the audio/video output jacks of your TV (see “Additional connection” on page 8).
- Set CONNECT L1 to TV in the SET UP MENU (see page 8).



1

Turn on your TV and select the programme position you want to record on your TV.

2

Insert a tape with its safety tab in place.

3



Press INPUT SELECT to display "LINE 1" in the display window.



4



Press SP/LP (SP/EP) to select the tape speed, SP or LP.

LP (Long Play) provides recording time twice as long as SP (Standard Play), however, SP produces better picture and audio quality.



5



Press ● REC to start recording.

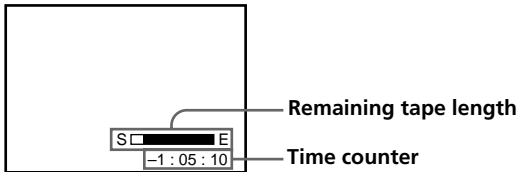
The REC indicator on the unit lights up.

To stop recording

Press ■ STOP.

To check the remaining tape length

Press DISPLAY. The white bar indicates the approximate length of tape remaining.



To record stereo and bilingual programmes

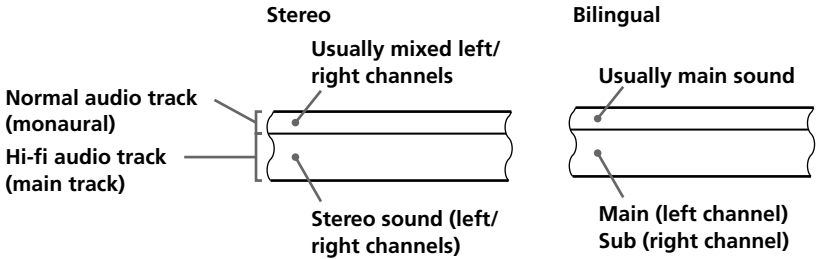
Set the connected TV to output stereo or bilingual sound. When stereo or bilingual sound is received through the line inputs, the STEREO indicator lights up in the front display. You cannot select the sound to listen to while recording.

continued

Recording TV programmes (continued)

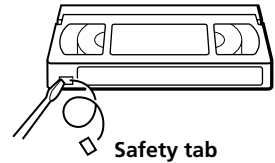
How sound is recorded on a video tape

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.



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.



To record NTSC colour system programmes

NTSC colour signals can be recorded on this unit.

For tape speed, select SP or EP in step 4.

EP (Extra Play) provides recording time three times as long as SP, however, SP produces better picture and audio quality.

When playing back, the unit automatically detects the tape speed.

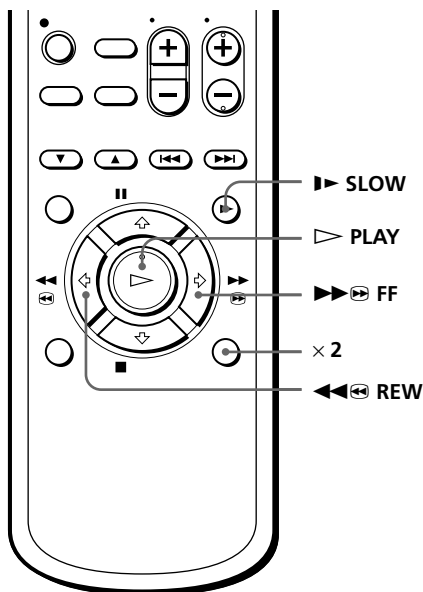
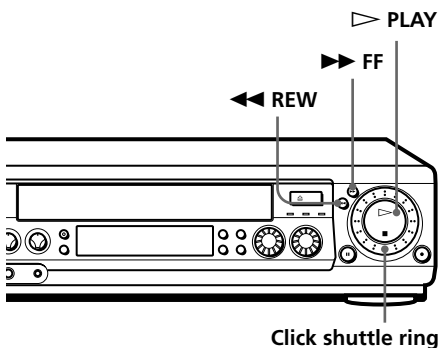
Tip

- The display appears on the TV screen indicating information about the tape, but the information won't be recorded on the tape.

Notes

- Do not turn off the TV nor change the programme position during recording.
- The display does not appear during still (pause) mode or slow-motion playback.
- When the unit is in karaoke mode, the unit displays the karaoke information (page 38).
- If a tape has portions recorded in both PAL and NTSC systems, the time counter reading will not be correct. This discrepancy is due to the difference between the counting cycles of the two colour systems.
- The remaining tape indicator bar may differ in length between the PAL and NTSC system.
- When you insert a non-standard commercially available tape, the remaining time may not be correct.
- It may take up to one minute for the unit to calculate and display the remaining tape length after you press DISPLAY.

Playing/searching at various speeds



Playback options	Operation
View the picture during fast-forward or rewind	During fast-forward, hold down ►►► FF/►►► FF. During rewind, hold down ◀◀◀ REW/◀◀◀ REW.
Play at high speed	<ul style="list-style-type: none"> • During playback, press ►►► FF or ◀◀◀ REW <u>on the remote commander</u>. • During playback, hold down ►►► FF/►►► FF or ◀◀◀ REW/◀◀◀ REW. When you release the button, normal playback resumes.
Play at twice the normal speed	During playback, press × 2.
Play in slow motion for two minutes	During playback or pause, press ►► SLOW.
Play frame by frame	During pause, press ►►► FF or ◀◀◀ REW <u>on the remote commander</u> . Hold down ►►► FF or ◀◀◀ REW to play one frame each second.
Rewind and start play	During stop, press ►► PLAY <u>on the unit</u> while holding down ◀◀ REW <u>on the unit</u> .

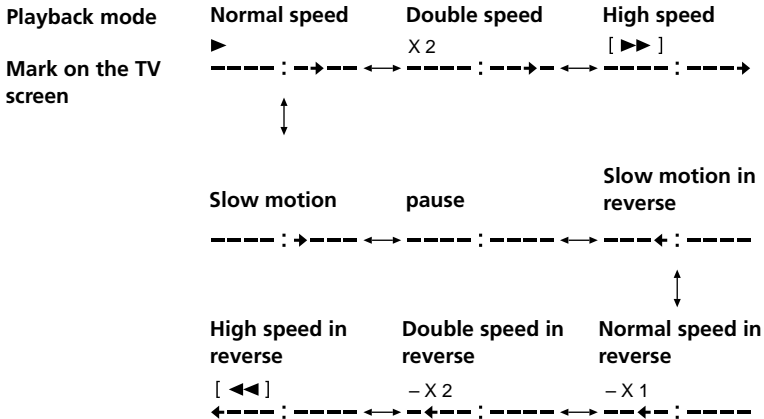
To resume normal playback

Press ►► PLAY.

Using the click shuttle ring

With the click shuttle ring, you can operate a variety of playback options.

During playback or pause, turn the click shuttle ring clockwise or anticlockwise. Each change in the click shuttle ring position changes the playback mode, and the corresponding mark appears on the TV screen for a few seconds in the following way if the on-screen display function is on.



Tip

- Adjust the picture using the ▼/▲ TRACKING buttons if:
 - streaks appear while playing in slow motion.
 - bands appear at the top or bottom while pausing.
 - the picture shakes while pausing.

To set tracking to the centre position, press both buttons (▼/▲) at the same time.

Notes

- The playback sound is muted during these operations.
- In LP or EP mode, noise may appear or there may be no colour.
- If the playback mode doesn't appear on the TV screen, press DISPLAY.
- The playback mode mark may shake while playing or searching at various speeds.
- The picture may have snow when playing at high speed in reverse.

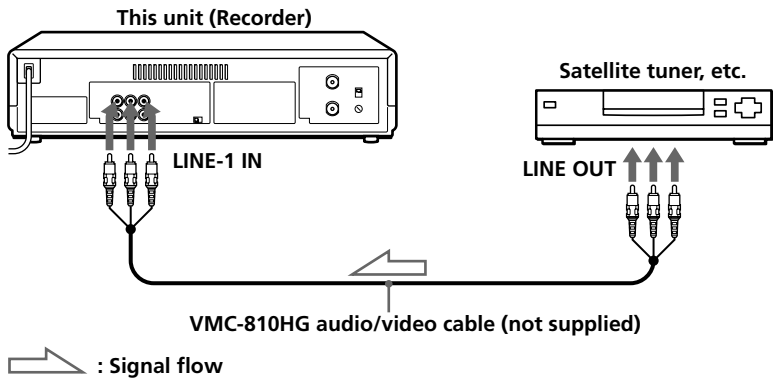
Synchronised recording

You can set the unit to automatically record programmes from such equipment as a TV, satellite tuner, or cable TV decoder by connecting the equipment to the LINE-1 IN jacks and setting its timer. The connected equipment must have a timer function for this feature to work.

When the connected equipment turns on, the unit also automatically turns on and starts recording a programme from LINE-1 IN.

How to connect for Synchronised recording

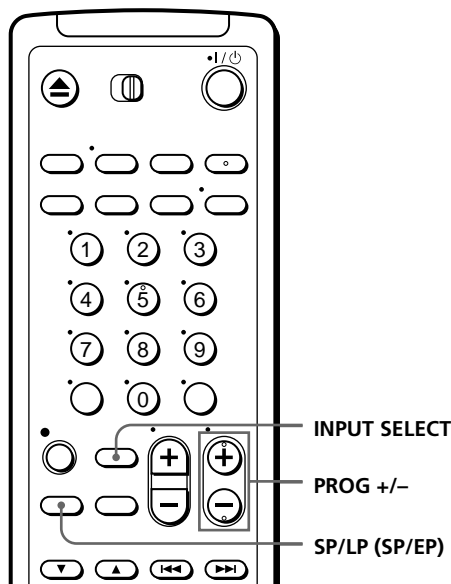
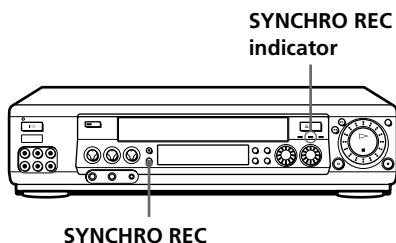
Connect the other equipment to the LINE-1 IN jacks of this unit.



Recording programmes using the Synchronised recording function

Before you start...

- Insert a tape with its safety tab in place. Make sure the tape is longer than the total recording time.



- 1 Press INPUT SELECT or PROG +/- to display "LINE 1" in the display window.
- 2 Set the timer on the equipment to the time of the programme you want to record, then turn it off.
- 3 Press SP/LP (SP/EP) to select the tape speed (SP or LP for the PAL colour system, and SP or EP for the NTSC colour system).
- 4 Hold down SYNCHRO REC for more than two seconds.

The SYNCHRO REC indicator on the unit lights up and the unit stands by for recording.

The unit automatically turns on and starts recording when it receives video signals from the connected equipment.

To cancel the Synchronised recording function

Press SYNCHRO REC. The SYNCHRO REC indicator lights off.

To stop recording

Press ■ STOP while recording.

The unit automatically stops recording when the tape reaches the end or when the other equipment stops transmitting the video signals.

continued

Synchronised recording (continued)

Notes

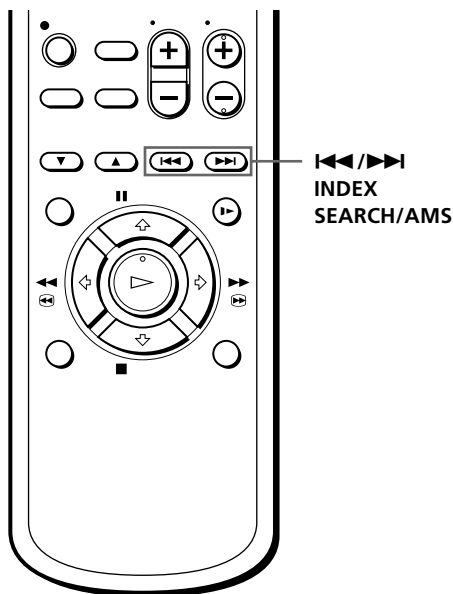
- Some TVs or other equipment with timer function will automatically turn off if no operation is performed within a certain amount of time. In this case, the Synchronized recording also stops automatically.
- When the connected equipment turns on while the SYNCHRO REC indicator is lit, recording starts automatically.
- Some equipment keeps transmitting signals even though the power is off. In this case, the Synchronised recording feature does not work because the VCR will not be able to know when to start recording.

Searching using the index function

The unit marks the tape with an index signal at the point where each recording begins. Use these signals as references to find a specific recording. The unit can search up to 99 index signals ahead or behind the current position.

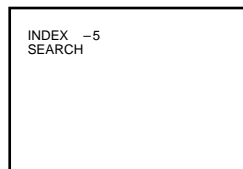
Before you start...

- Turn on the unit and the TV.
- Set the TV to the video channel.



- 1 Insert an indexed tape into the unit.
- 2 Press **◀◀/▶▶** INDEX SEARCH/AMS repeatedly to specify how many index signals ahead or behind you want to search:
 - To search ahead, press **▶▶** INDEX SEARCH/AMS.
 - To search backwards, press **◀◀** INDEX SEARCH/AMS.

The unit starts searching and the index number on the TV screen counts down to zero. Playback starts automatically from that point about five seconds ahead of the specified index mark.



To stop searching

Press **■** STOP.

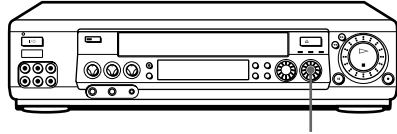
Tip

- When karaoke mode is set to on, you can search using the AMS function. For details about the AMS function, see “Searching for a song using the AMS function” on page 39.

Note

- No index signal will be added when recording starts from recording pause. However, an index signal will be marked if you change the programme position during recording pause.

Enjoying the surround sound (Virtual Surround)



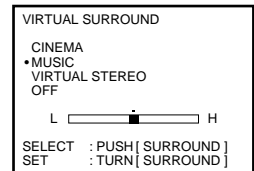
VIRTUAL SURROUND knob

You can use the Virtual Surround function to give stereo sources a surround sound effect and monaural sources a simulated stereo effect.

To enjoy this feature, you must connect a stereo system or stereo TV to the LINE-1 OUT or LINE-2 OUT jacks.

- 1 Press VIRTUAL SURROUND repeatedly to select the effect you want.
You can select CINEMA or MUSIC as an effect. Select VIRTUAL STEREO when listening to a monaural source for a simulated stereo effect.

When using the any effect, the VIRTUAL SURROUND knob lights up.



- 2 Turn VIRTUAL SURROUND to adjust the level of the effect selected.

To set the Virtual Surround function using the remote commander

- 1 Press VIRTUAL SURROUND repeatedly to select the effect you want.
- 2 Press \leftarrow/\rightarrow to adjust the level of the effect selected.

To cancel the Virtual Surround function

Press VIRTUAL SURROUND repeatedly until the VIRTUAL SURROUND knob lights off.

Tip


- You can also set the Virtual Surround effect using the MENU option.




Notes

- This function is available only when the sound is reproduced on a stereo TV (or other stereo audio equipment). If the connected TV or other audio equipment is monaural or simulated stereo, or if you connected your TV using the aerial cable only, you cannot get a clear effect.
- We recommend that you do not use the surround effect function of this unit and that of the connected TV (or other audio equipment) at the same time. If you do so, the function may not work properly because the effects overlap each other.

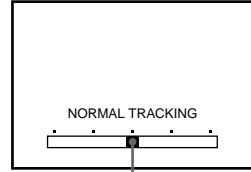
Adjusting the picture

Adjusting the tracking

Although the unit automatically adjusts the tracking when playing a tape (the  indicator flashes in the display window, then goes off), distortion may occur if the tape was recorded in poor condition. In this case, manually adjust the tracking.

During playback, press / TRACKING to display the tracking meter. The distortion should disappear as you press one of the two buttons (the  indicator lights up).

If you cannot get a clear picture with manual adjustment, press TRACKING AUTO/MANUAL to return to automatic adjustment.



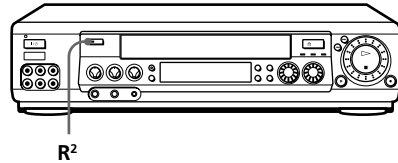
Tracking meter

About the R² (Reality Regenerator) function

The R² function automatically adjusts the picture to the most suitable quality during playback.

When playback starts, the R² function activates and the R² button lights up.

Each pressing of the button on the unit changes the effect and the indicator in the display window as follows;



REAL (status of playback started) → SOFT → DYNAMIC



continued

Adjusting the picture (continued)

About the Adaptive Picture Control (APC) function

The Adaptive Picture Control (APC) function automatically improves recording and playback quality by adjusting the unit to the condition of the video heads and tape. To maintain better picture quality, we recommend that you set APC to ON in the SET UP MENU (with the APC indicator in the display window lit). For details, see page 31.

SET UP MENU		
BUZZER	•ON	OFF
DIMMER 1	•2	OFF
AUDIO MIX	ON	•OFF
CONNECT L1	TV	•OTHER
▶APC	•ON	OFF
PAL / MESECAM		
	•AUTO	PAL MESECAM
SELECT	: [♦♦]	
SET	: [♦♦]	

APC playback

The APC function automatically works on all types of tapes, including rental tapes and tapes that were not recorded with APC.

APC recording

Whenever you insert a tape and start recording for the first time, the unit adjusts to the tape using the APC function (the APC indicator flashes rapidly). This adjustment is retained until the tape is ejected.

To deactivate the APC

Set APC to OFF in the SET UP MENU. The APC indicator in the display window goes off.

Tip

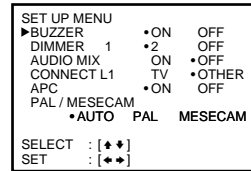
- To set the tracking to the centre position, press the TRACKING + and - buttons on the unit at the same time.

Note

- There is a delay of a few seconds before the unit actually starts recording while the unit analyses the tape. To avoid the delay, first set the unit to recording pause (the APC indicator flashes slowly) and press ● REC to have the unit analyse the tape (the APC indicator flashes rapidly). After the APC indicator stops flashing, press ■ PAUSE to start recording immediately. If you want to start recording quickly without using the APC function, first set the unit to recording pause (the APC indicator flashes slowly) and press ■ PAUSE to start recording.

Changing menu options

1 Press MENU, then select SET UP MENU.



2 Press **↑/↓** to select the option, then press **←/→** to change the setting.

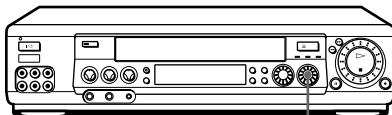
3 Press OK to return to the original screen.

Menu choices

Initial settings are indicated in bold print.

Menu option	Set this option to
BUZZER	<ul style="list-style-type: none"> • ON to output a beep sound when all illogical operation is made. • OFF to deactivate it.
DIMMER	<ul style="list-style-type: none"> • 1 to make the display window dimmer. • 2 for medium level brightness. • OFF to make the display window brighter.
AUDIO MIX	<ul style="list-style-type: none"> • ON to listen to the hi-fi and normal audio tracks at the same time. The AUDIO MONITOR button will not function. • OFF to listen to the hi-fi and normal audio tracks separately. Select the sound using the AUDIO MONITOR button. <p>For details, see page 48.</p>
CONNECT L1	<ul style="list-style-type: none"> • TV to record TV programmes using the LINE-1 IN jacks. • OTHER to record other audio/video sources using the LINE-1 IN jacks. <p>For details, see page 8.</p>
APC	<ul style="list-style-type: none"> • ON to switch on the APC (Adaptive Picture Control) function and improve picture quality. • OFF to switch off APC. <p>For details, see page 30.</p>
PAL/MESECAM	<ul style="list-style-type: none"> • AUTO to record/play back in the colour system selected automatically. Normally, select AUTO. • PAL to record/play back in the PAL colour system. • MESECAM to record/play back in the MESECAM colour system. <p>For details, see page 16.</p>

Adjusting the LCD contrast



LCD CONTR knob

You can adjust the contrast of the display.

- 1** Hold down LCD CONTR on the unit for more than three seconds.
The contrast level appears in the display window.



- 2** Turn LCD CONTR to adjust the contrast.
- 3** Press LCD CONTR.

Tip

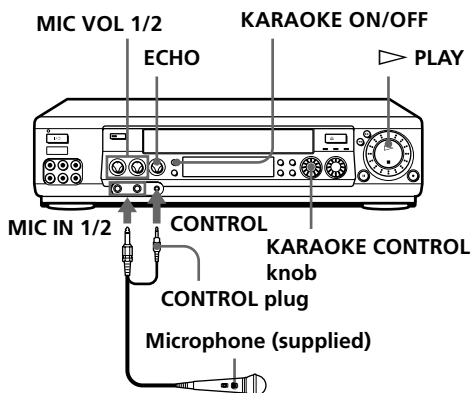
- If you do not turn the LCD CONTR knob within 10 seconds, the LCD contrast mode will be deactivated.

Singing along with karaoke video tapes

You can sing along with a karaoke video tape, a TV broadcast, or music played back on equipment connected to the LINE-1 IN or LINE-2 IN jacks on the unit. You can sing duets if you use an extra microphone (not supplied).

Before you start...

- Turn on the unit and the TV.
- Set the TV to the video channel.
- Connect the supplied microphone to the MIC IN 1 jack and its control plug to the CONTROL jack. To sing duets, connect an optional microphone to the MIC IN 2 jack.



- 1 Press KARAOKE ON/OFF to set karaoke mode to on.
The KARAOKE ON/OFF button and the KARAOKE CONTROL knob light up.
- 2 Insert a karaoke video tape.
The unit starts playing automatically if you insert a tape with its safety tab removed.
- 3 Press ▷ PLAY.
If you want to play back a specific song, see “Searching for a song using the AMS function” on page 39.
- 4 Switch the microphone on.
Now you can enjoy singing karaoke.

To cancel karaoke mode

Press KARAOKE ON/OFF. The KARAOKE ON/OFF button lights off.

To adjust the microphone volume

Turn MIC VOL 1 for the microphone connected to MIC IN 1. Turn MIC VOL 2 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.

continued

Singing along with karaoke video tapes (continued)

To control the echo effect

Turn ECHO. This adjusts both microphones' echo effect to the same level. To get the best effect, adjust the microphone volume to a slightly higher level than the music volume.

Tip

- When you sing along with TV broadcasts or music played back on equipment connected to the LINE-1 IN or LINE-2 IN jacks on the unit, play the music source and follow steps 1 and 4.
- When CONNECT L1 in the SET UP MENU is set to TV (see page 31), the sound through the microphone is output only during playback. If you want to use a microphone in all mode, set CONNECT L1 in the SET UP MENU to OTHER.

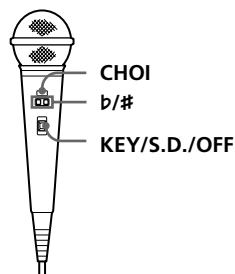
Notes

- If the sound is reproduced through a stereo amplifier, turn down the volume of amplifier before operation.
- If feedback occurs, turn down the microphone or TV volume, or move the microphone away from the speakers.

Using the supplied microphone

You can control some of the unit's karaoke functions with the microphone.

- **CHOI** button
Press and hold to rewind the tape while viewing the picture.
- **b/#** buttons
Change the pitch in Key Control mode (page 35).
Set the harmony interval in Self Duet mode (page 36).
- **KEY/S.D./OFF** selector
Select KEY or S.D. to switch the microphone on in Key Control or Self Duet mode. Select OFF to switch the microphone off.

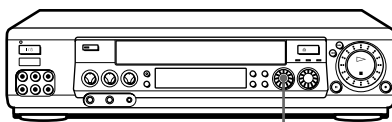


Note

- The **b/#** buttons and **KEY/S.D./OFF** selector on the microphone may not operate with other VCRs.

Changing the pitch (Key Control)

While you are singing, you can change the pitch of the song to match your vocal range.



KARAOKE CONTROL knob

Turn KARAOKE CONTROL to set the pitch you want.



You can change the pitch of the song in half tone intervals.

To	Turn KARAOKE CONTROL	Range	Display window
Raise the pitch	clockwise	8 half tones	"#1" to "#8"
Lower the pitch	anticlockwise	8 half tones	"b1" to "b8"

To return to the original pitch

Turn KARAOKE CONTROL until "0" appears in the display window.

Tip

- You can also change the pitch using the supplied microphone. To change the pitch, set the KEY/S.D./OFF selector to KEY, then press the #/b buttons.

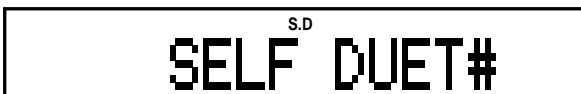
continued

Singing along with karaoke video tapes (continued)

Adding harmony (Self Duet)

You can sing duets by yourself with using the supplied microphone. The unit creates a harmony voice at the interval you want.

- 1 Set KEY/S.D./OFF on the supplied microphone to S.D.
- 2 Press # or ♭ on the supplied microphone to select a high or low harmony voice.



To	Press	Display window
Add a high harmony	SELF DUET #	SELF DUET #
Add a low harmony	SELF DUET ♭	SELF DUET ♭

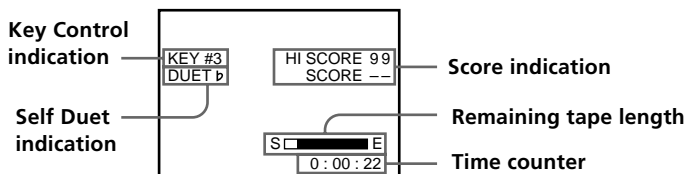
To cancel the Self Duet function

Set KEY/S.D./OFF to OFF.

Displaying the karaoke information

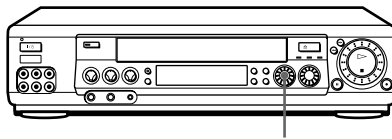
Press DISPLAY when the unit is in karaoke mode. The karaoke information appears on the TV screen. If you press the DISPLAY button once more, the remaining tape length and time counter will also appear. For more details about the score indication, see "Grading your singing" on page 43.

To turn off the display, press DISPLAY again.



Reducing the playback vocals (Karaoke Pon)

This function reduces the vocals on played back music sources. You can use hi-fi stereo music sources for karaoke.



KARAOKE CONTROL knob

Press KARAOKE CONTROL repeatedly until PON appears in the display window. The singer's voice is reduced. Each time you press KARAOKE CONTROL, the indicator in the display window changes as follows:

PON → ASSIST → *ASSIST → Normal (No indicator)



* This ASSIST is for the Assist Pro function.

To cancel the Karaoke Pon function

Press KARAOKE CONTROL repeatedly until the indicator disappears.

Note

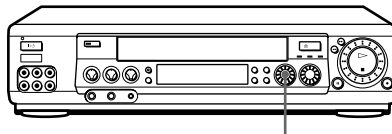
- The Karaoke Pon function does not work with the following tapes:
 - Tapes on which different vocal sounds are recorded on the left and right channels, such as a duet.
 - Monaural recorded tapes.
 - Tapes on which sound sources are recorded with strong echo effects and/or chorus-effects.

continued

Singing along with karaoke video tapes (continued)

Backing up your singing (Vocal Assist)

This unit can assist your singing in case you forget the lyrics while you are singing. The unit fills in the vocal for you automatically if you stop singing into the microphone. Use karaoke stereo hi-fi tapes which have the accompaniment music on the left channel and the accompaniment plus vocal on the right channel.



KARAOKE CONTROL knob

Press **KARAOKE CONTROL** repeatedly until **ASSIST** appears in the display window. Each time you press **KARAOKE CONTROL**, the indicator in the display window changes as follows:

PON → ASSIST → *ASSIST → Normal (No indicator)



* This ASSIST is for the Assist Pro function.

Hiding the lyrics (Assist Pro)

The Assist Pro function of Vocal Assist will hide the lyrics that appear on the screen. If you stop singing into the microphone, the lyrics will reappear.

To set to Assist Pro, press **KARAOKE CONTROL** repeatedly until **ASSIST PRO** appears on your TV screen.

To cancel the Vocal Assist function

Press **KARAOKE CONTROL** repeatedly until the indicator disappears.

Note

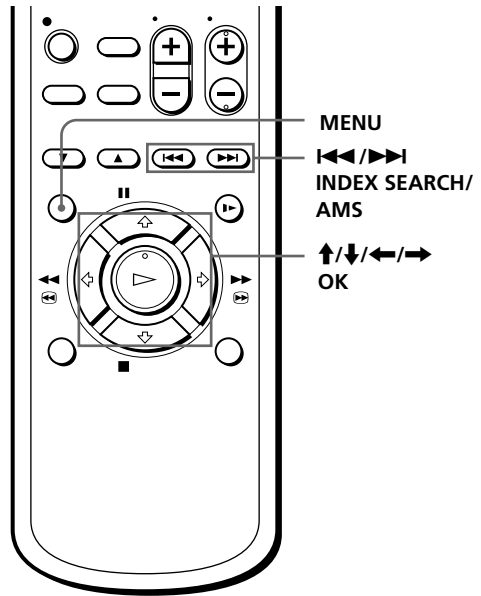
- The Vocal Assist function does not work with the following tapes:
 - Hi-fi tapes on which the same sound is recorded on the left and right channels,
 - Monaural recorded tapes.

Searching for a song using the AMS function

You can search for the start of a specific song on a karaoke video tape. To search for a song using the AMS function, you need to set Search mode to AMS.

Before you start...

- Turn on the unit and the TV.
- Set the TV to the video channel.



Selecting the AMS function

The AMS (Automatic Music Sensor) function is only for karaoke mode. It searches for blank spaces (of at least four seconds) between recorded signals on the sound track of a tape.

- 1 Press MENU and select SET UP KARAOKE, then press OK.
- 2 Press $\uparrow/\downarrow/\leftarrow/\rightarrow$ to set SEARCH MODE to AMS.
- 3 Press OK.

SET UP KARAOKE			
▶SEARCH MODE	•AMS	INDEX	
SCORE LEVEL	•HIGH	LOW	
AUTO SCORE	ON	•OFF	
SCORE MODE	•SNGL	GROUP	
SELECT	: [♦♦]		
SET	: [♦♦]		

continued

Searching for a song using the AMS function (continued)

Searching using the AMS function

The unit can search up to 99 blank spaces ahead of or behind the current position.

- 1 Press KARAOKE ON/OFF to set karaoke mode to on.
- 2 Insert a tape into the unit.
- 3 Press **◀◀ / ▶▶** INDEX SEARCH/AMS repeatedly to specify how many blank spaces ahead or behind you want to search:
 - To search ahead, press **▶▶** INDEX SEARCH/AMS.
 - To search backwards, press **◀◀** INDEX SEARCH/AMS.



INDEX -5
SEARCH

The unit starts searching and the number of blank spaces on the TV screen counts down to zero. Playback starts automatically from that point.

To stop searching

Press **■** STOP.

Note

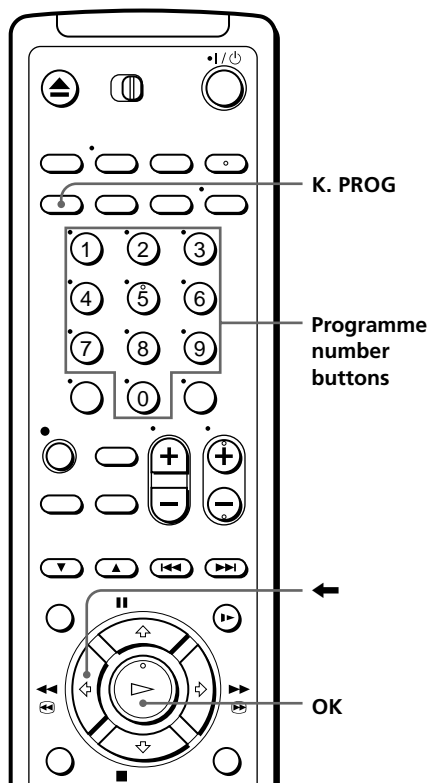
- You cannot use the AMS function on tapes that have many blank spaces in a short time span such as dramas and dialogues. In this case, set SEARCH MODE to INDEX in step 2 of “Selecting the AMS function.” For more details about the Index Search function, see “Searching using the index function” on page 27.

Playing a tape in a programmed order (Karaoke Programme)

You can sing songs in the order you want.

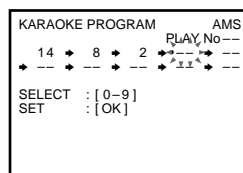
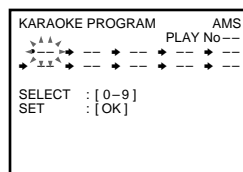
Before you start...

- Turn on your TV and set it to the video channel.
- Set SEARCH MODE to AMS in the SET UP KARAOKE menu. For details, see “Selecting the AMS function” on page 39.



- 1 Press KARAOKE ON/OFF to set karaoke mode to on.
- 2 Insert a karaoke video tape.
- 3 Press K. PROG.

- 4 Press the programme number buttons to select up to ten songs in the order you want.
For single-digit numbers, first press “0” then the song number. To correct a song number, press ← to return to that number and reset it.



continued

Playing a tape in a programmed order (Karaoke Programme) (continued)

5 Press OK.

The tape automatically rewinds to the beginning, and playback starts in the order you selected.

To stop playing

Press ■ STOP.

To change the programme order

Press ■ STOP and repeat steps 3 through 5 above.

Tip

- You can also select the KARAOKE PROGRAM menu with using the MENU button and the ↑/↓ buttons.

Notes

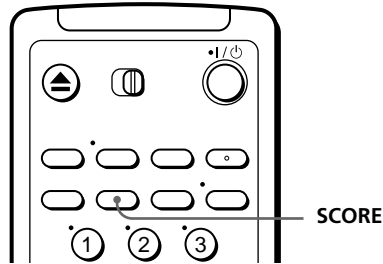
- If you set karaoke mode to off, the list settings are cleared.
- When you turn off the unit, the unit exits Karaoke Programme mode.
- When you press the ◀◀/▶▶ INDEX SEARCH/AMS buttons while in Karaoke Programme mode, the unit does not search beyond the current song, but rewinds the tape to the beginning of the song being played back, or fast-forwards to the next song. When the unit exits Karaoke Programme mode, pressing the ◀◀/▶▶ INDEX SEARCH/AMS buttons returns it to its normal function. (See “Searching for a song using the AMS function” on page 39.)
- If you press the CHOI button on the supplied microphone and rewind past the beginning of the current song, the selected song order may not be played correctly.

Grading your singing

As an extra challenge, the unit can grade your singing. Also, two groups can compete for scores.

Before you start...

- Turn on the unit and the TV.
- Set the TV to the video channels.
- Set karaoke mode to on by pressing the KARAOKE ON/OFF button.

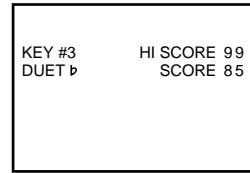


1 Start singing and press SCORE.

“SCORE” appears on the TV screen, and the unit starts analysing your singing.

2 Press SCORE again after singing for more than one minute.

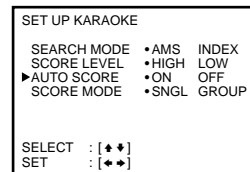
Your score appears on the TV screen for five seconds. The highest score (HI SCORE) is saved, and is indicated above your present score.



To score automatically (Auto Score)

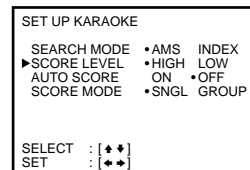
The unit automatically scores each song in order during Karaoke Programme mode. Press MENU and select SET UP KARAOKE, then set AUTO SCORE to ON.

Each time a song ends, the score appears for five seconds.



To set the score level

This unit has two different score levels. To set the score level, press MENU and select SET UP KARAOKE. Then set SCORE LEVEL to HIGH for easy grading or LOW for strict grading.



continued

Grading your singing (continued)

To have a song competition between two people or groups

Each group or person alternates singing, and competing for scores.

To set the score mode to Group score mode...

Press MENU and select SET UP KARAOKE, then set SCORE MODE to GROUP. Start singing and press SCORE.

After the first song ends, the score appears for group "A." After the second song ends, the score appears for group "B," and so on.

After each group sings 10 songs each, the total score appears on the TV screen for 5 seconds. To end the competition early, press SCORE at any time. The total score for each group's songs appears on the TV screen for 5 seconds.

```
SET UP KARAOKE
SEARCH MODE  •AMS  INDEX
SCORE LEVEL  •HIGH  LOW
AUTO SCORE   ON    •OFF
▶SCORE MODE  SNGL  •GROUP

SELECT : [▲▲]
SET     : [◆◆]
```

```
KEY #3          HI SCORE 99
DUET ▶          SCORE  --

A : TTL 4 245
B : TTL 3 175
```

Tips

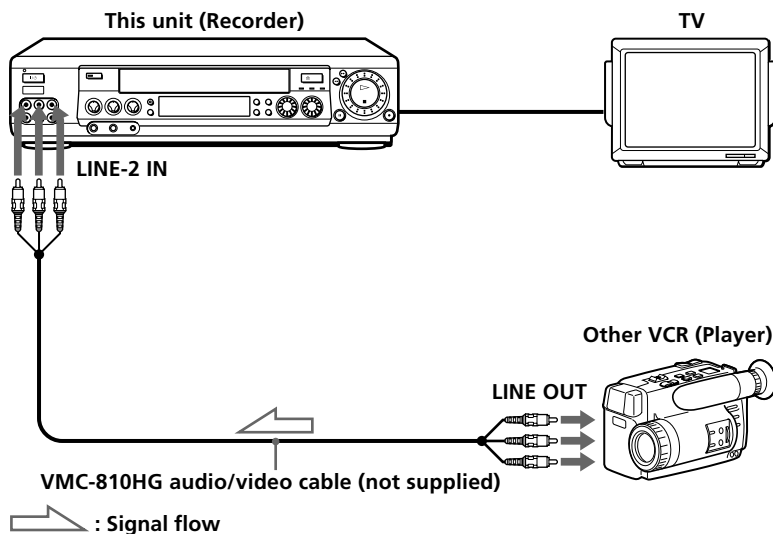
- The highest possible score is 99 points.
- To display your score on the TV screen again, press DISPLAY.
- The highest score is cleared each time you set karaoke mode to off.

Note

- The grading is not absolute. Please use this function for your own amusement.

Connecting to a VCR or stereo system

How to connect to record on this unit



How to connect to a stereo system

Connect the LINE-2 IN AUDIO L/R jacks on this unit to the audio output jacks on the stereo system, using the RK-C510HG audio cable (not supplied).

Tip

- You can also use the LINE-1 IN jacks instead. If you do, set CONNECT L1 to OTHER in the SET UP MENU.

Notes

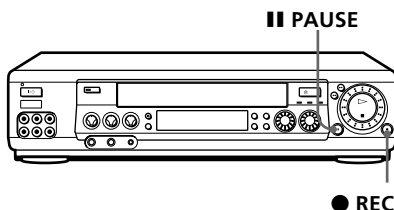
- Make sure you connect the plugs to jacks of the same colour.
- If the other VCR is a monaural type, connect the audio plug to the AUDIO L (white) jack. The sound is recorded on both right and left channels. If you connect to the AUDIO R (red) jack, the sound is recorded only on the right channel.
- If you connected this unit to both the LINE IN and LINE OUT jacks of the other VCR, select the input correctly to prevent humming noise.

Basic editing

(when recording on this unit)

Before you start editing

- Turn on your TV and set it to the video channel.
- Press INPUT SELECT or PROG +/- to display “LINE 2” (or “LINE 1”) in the display window.
- Press SP/LP (SP/EP) to select the tape speed (SP or LP for the PAL system, and SP or EP for the NTSC system).



- 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 and 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.

Tips

- To cut out unwanted scenes while editing, press **|| PAUSE** on this unit when an unwanted scene begins. When it ends, press **|| PAUSE** again to resume recording.
- You can dub sound onto the normal audio track through a microphone while editing. Set karaoke mode to on before you start dubbing.

Note

- If you start editing following the procedure above, the unit won't 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 unit analyses the tape. Then, when you start recording in step 4, press **|| PAUSE** after the APC indicator stops flashing. If you press **|| PAUSE** before the APC indicator stops flashing, the APC function is cancelled.

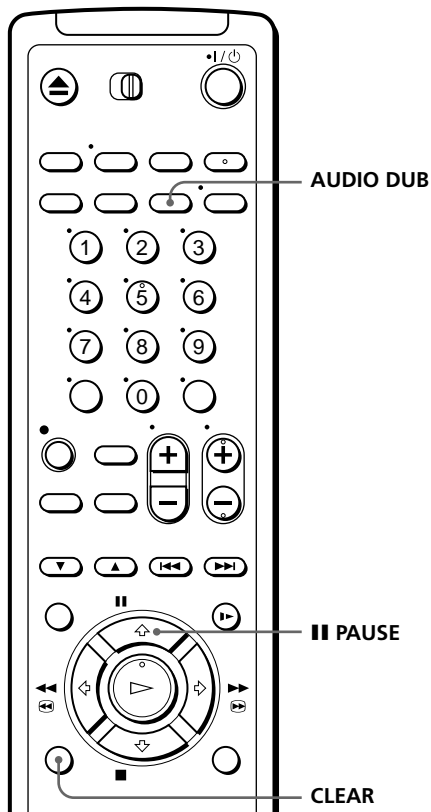
Audio dubbing

This feature lets you record over the normal audio track. The monaural sound previously recorded is replaced while the original hi-fi sound remains unchanged. Use this feature to add commentary to a tape that you have recorded with a camcorder. You can also record your karaoke performances.

Audio dubbing from a stereo system or other external source

Before you start dubbing

- Turn on your TV and set it to the video channel.
- Press INPUT SELECT or PROG +/- to display "LINE 2" (or "LINE 1") in the display window.



- 1** Insert a source tape into the stereo system (or the playback VCR). Search for the point to start playback and set it to playback pause.
- 2** Insert a prerecorded tape with its safety tab in place into this (recording) unit. Search for the end of the section to be replaced and press **|| PAUSE**.
- 3** Press **CLEAR** to reset the counter to "0:00:00."
- 4** Rewind the prerecorded tape to the beginning of the section to be replaced.

The unit enters pause mode.

continued

Audio dubbing (continued)

5 Press AUDIO DUB.

The AUDIO DUB indicator on the unit lights up.

6 To start editing, press the **||** PAUSE buttons on this unit and the stereo system (or other VCR) at the same time.

When the counter reaches "0:00:00," audio dubbing stops automatically.

To stop while editing

Press the **■** STOP buttons on this unit and the stereo system (or other VCR).

To listen to both the hi-fi and normal audio

Set AUDIO MIX to ON in the SET UP MENU (page 31). Use this feature to listen to dubbed audio over the original hi-fi audio. When AUDIO MIX is set to ON, the AUDIO MONITOR button does not function.

Remember to reset AUDIO MIX to OFF after playing the tape.

To listen to the dubbed sound (normal audio)

Press AUDIO MONITOR until the "L," "R," and "STEREO" indicators go off in the display window.

Note

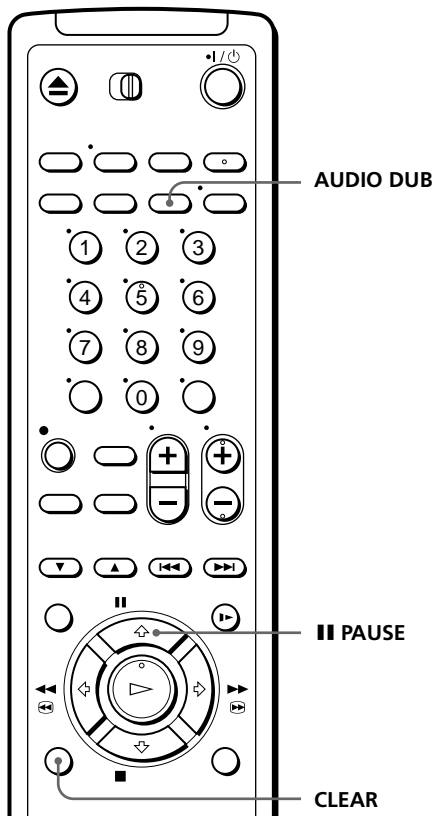
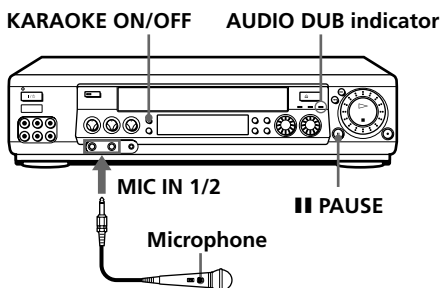
- Recording stops if you press CLEAR while audio dubbing.

Audio dubbing from the microphone

Using the microphone, you can add songs or narration on a recorded tape. Sound from the microphone is mixed with the original hi-fi sound and recorded on the normal audio track.

Before you start dubbing

- Connect the microphone(s) to the MIC IN 1 and/or 2 jack(s), and turn on the microphone(s).
- Turn on your TV and set it to the video channel.



- 1 Press KARAOKE ON/OFF to set karaoke mode to on.
The KARAOKE ON/OFF button lights up.
- 2 Insert the prerecorded tape with its safety tab in place into the unit.
Search for the end of the section to be replaced and press **|| PAUSE**.
- 3 Press CLEAR to reset the counter to "0:00:00."
- 4 Rewind the prerecorded tape to the beginning of the section to be replaced.
The unit enters pause mode.
- 5 Press AUDIO DUB.
The AUDIO DUB indicator on the unit lights up.
- 6 To start editing, press **|| PAUSE** on the unit to start dubbing, and sing or speak into the microphone.
When the counter reaches "0:00:00," audio dubbing stops automatically.

continued

Audio dubbing (continued)

To stop while editing

Press ■ STOP.

To listen to the dubbed sound

Press AUDIO MONITOR until the “L,” “R,” and “STEREO” indicators go off in the display window.

To record sound from the microphone mixed with an external source

If you connect equipment such as a laser disc player to this unit’s LINE-2 IN jacks, you can record while singing along to a karaoke LD.

- 1** Insert a tape with its safety tab in place into the unit.
- 2** Press KARAOKE ON/OFF to set karaoke mode to on.
- 3** Press INPUT SELECT to select “LINE 2.”
- 4** Press ● REC.
- 5** Start playback the karaoke LD and singing into the microphone.

The mixed sound is recorded on the normal audio track, and the sound input from the LINE-2 IN jacks is recorded on the hi-fi audio track.

Tip

- When dubbing from the microphone, you can use the functions of echo effect, Key Control, and Self Duet.

Note

- Recording stops if you press CLEAR while audio dubbing.

Troubleshooting

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

	Symptom	Remedy
Power	The I/⏻ ON/STANDBY switch does not function.	<ul style="list-style-type: none"> • Connect the mains lead to mains securely.
	The power is turned on but the unit does not operate.	<ul style="list-style-type: none"> • Moisture condensation occurs. Turn the power off, unplug the mains lead and leave the unit to dry for over three hours.
	The playback picture does not appear on the TV screen.	<ul style="list-style-type: none"> • Make sure the TV is set to the video channel. If you are using a monitor, set it to video input. • If you made connections using the aerial cable only, make sure the RF channel number is set correctly for your area.
Playback	The playback picture has no colour or unusual colours.	<ul style="list-style-type: none"> • Set PAL/MESECAM in the SET UP MENU according to your local colour system.
	The picture or sound is distorted.	<ul style="list-style-type: none"> • Adjust the tracking with the ▼/▲ TRACKING buttons. • Make sure the colour system is correctly set to the system that the tape was recorded in. • If you made connections using the aerial cable only, make sure the TV system is set correctly for your area.
	The picture is not clear, or a message appears indicating that the videohead may be contaminated.	<ul style="list-style-type: none"> • The video heads are dirty (see below). Clean the video heads using the Sony T-25CLD, E-25CLDR, or T-25CLW video head cleaning cassette. If these cleaning cassettes are 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 liquid-type cleaning cassette other than Sony's, as it may damage the video heads. • If a message appears, this indicates that the Head Condition Sensor has detected dirty video heads. Follow the on-screen message. For details about the Head Condition Sensor, see page 52. • The video heads may have to be replaced. Consult your local Sony service facility for more information.
	The picture rolls vertically during picture search.	<ul style="list-style-type: none"> • Adjust the vertical hold control on the TV or monitor.
	The picture has no sound.	<ul style="list-style-type: none"> • The tape is defective. Use a new tape. • If you made A/V connections, check the audio cable connection.
	The sound is unstable or has an echo.	<ul style="list-style-type: none"> • When you play a tape with the same sound recorded on both the hi-fi and normal sound tracks, make sure AUDIO MIX in the SET UP MENU is set to OFF.

Symptoms caused by contaminated video heads

• Normal picture

• Rough picture

• Unclear picture

• No picture (blue screen and message)



initial
contamination



terminal
continued

Troubleshooting (continued)

	Symptom	Remedy
Recording	The tape starts playing as soon as it is inserted.	<ul style="list-style-type: none"> The safety tab has been removed. To record on this tape, cover the tab hole.
	The tape is ejected when you press ● REC.	<ul style="list-style-type: none"> Check that the safety tab has not been removed.
	Nothing happens when you press ● REC.	<ul style="list-style-type: none"> Make sure the tape is not at its end. Select the correct source with the INPUT SELECT button or PROG +/- buttons.
Others	A tape cannot be inserted.	<ul style="list-style-type: none"> Check that a tape isn't already in the tape compartment.
	The remote commander does not function.	<ul style="list-style-type: none"> Make sure you are pointing the remote commander at the remote sensor on the unit. Replace all the batteries in the remote commander with new ones if they are weak. Make sure the [TV]/[VIDEO] remote control switch is set correctly.
	The tracking meter does not appear on the TV screen.	<ul style="list-style-type: none"> The recording condition of the tape is very poor and tracking cannot be adjusted.
	The unit needs to be cleaned.	<ul style="list-style-type: none"> 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.
	The AMS function does not work properly.	<ul style="list-style-type: none"> The tape has too many blank spaces in a short time span. Change SEARCH MODE in the SET UP KARAOKE menu from AMS to INDEX.
	The demonstration cannot be stopped.	<ul style="list-style-type: none"> Press I/⏻ ON/STANDBY or ■ STOP on the VCR to stop the demonstration for a salesperson.

Sapphire tape cleaner

The unit incorporates a sapphire tape cleaner which cleans a video tape when it is loaded. This cleaner can prevent the video heads from contamination by removing dust or mold from the tape with the sapphire edge.

Head Condition Sensor

The Head Condition Sensor detects video heads. When the heads are dirty, a message will instruct you to insert a video head cleaning cassette.

The VCR may temporarily switch to a different head and resume playback. To switch the head, press ▷ PLAY while the "PUSH [PLAY] TO RESUME TEMPORARILY" message appears on the screen. Although playback will resume, the sound will be monaural. When playback is finished, be sure to clean the heads with a video head cleaning cassette.

Be sure to use the Sony T-25CLD, T-25CLW, or E-25CLDR head cleaning cassette. If these cleaning cassettes are not available in your area, have the heads cleaned at your nearest Sony service facility (a standard service charge will be required).

Note

- When you manually adjust the tracking, the Head Condition Sensor will not operate.

Specifications

System

RF output signal

UHF channels 30 to 39

Aerial out

75-ohm asymmetrical aerial socket

Inputs and outputs

LINE-1 IN and LINE-2 IN

VIDEO IN, phono jack (1 each)

Input signal: 1 Vp-p, 75 ohms, unbalanced, sync negative

AUDIO IN, phono jack (2 each)

Input level: 327 mVrms

Input impedance: more than 47 kilohms

LINE-1 OUT and LINE-2 OUT

VIDEO OUT, phono jack (1 each)

Output signal: 1 Vp-p, 75 ohms, unbalanced, sync negative

AUDIO OUT, phono jack (2 each)

Standard output: 327 mVrms

Load impedance: 47 kilohms

Output impedance: less than 10 kilohms

General

Power requirements

110 – 240 V AC, 50/60 Hz

Power consumption

19W

Operating temperature

5°C to 40°C

Storage temperature

-20°C to 60°C

Dimensions

Approx. 430 × 100 × 286 mm (w/h/d)

including projecting parts and controls

Mass

Approx. 4.7 kg

Supplied accessories

Remote commander (1)

R6 (size AA) batteries (2)

Aerial cable (1)

Audio/video cable (3- phono to 3-phono) (1)

Microphone (1)

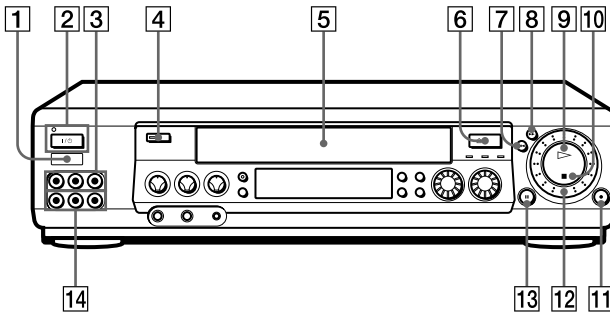
Plug adaptor (1) (SLV-KH9ME only)

Design and specifications are subject to change without notice.

Index to parts and controls

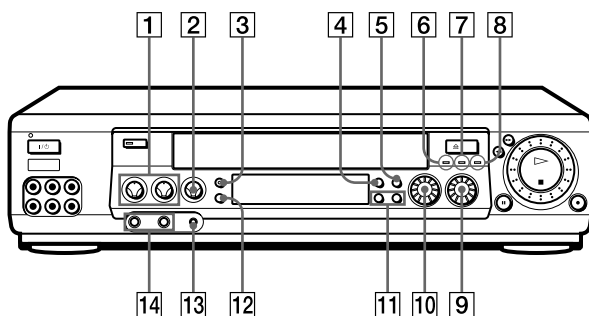
Refer to the pages indicated in parentheses () for details.

Front panel



- | | |
|---|---|
| 1 Remote sensor (5) | 8 ►► FF (fast-forward) button (14, 22) |
| 2 I/⏻ ON/STANDBY switch/
indicator (11) | 9 ▷ PLAY button (13) |
| 3 LINE-2 IN VIDEO/AUDIO L/R
jacks (45) | 10 ■ STOP button (14, 19) |
| 4 R ² (Reality Regenerator) button (29) | 11 ● REC (record) button (19) |
| 5 Tape compartment | 12 Click shuttle ring (23) |
| 6 ▲ EJECT button (14) | 13 PAUSE button (14, 46) |
| 7 ◀◀ REW (rewind) button (14, 22) | 14 LINE-2 OUT VIDEO/AUDIO L/R
jacks |

Front panel (continued)

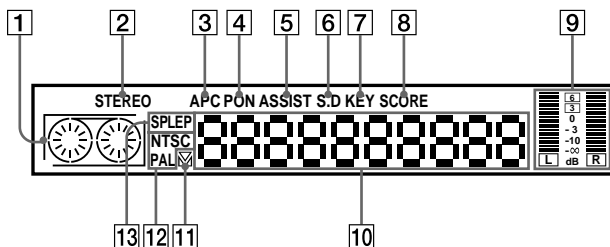


- | | |
|--|--|
| 1 MIC VOL (microphone volume) 1/2 controls (34) | 9 VIRTUAL SURROUND/LCD CONTR (contrast) +/- knob (28, 32) |
| 2 ECHO control (34) | 10 KARAOKE CONTROL knob (33, 35, 37) |
| 3 KARAOKE ON/OFF button (33) | 11 TRACKING +/- buttons (30) |
| 4 COLOR SYSTEM button (14) | 12 SYNCHRO REC (synchronised recording) button (25) |
| 5 INPUT SELECT button (11) | 13 CONTROL jack (33) |
| 6 REC (record) indicator (19) | 14 MIC (microphone) IN 1/2 jacks (33) |
| 7 SYNCHRO REC (synchronised recording) indicator (25) | |
| 8 AUDIO DUB (dubbing) indicator (47) | |

continued

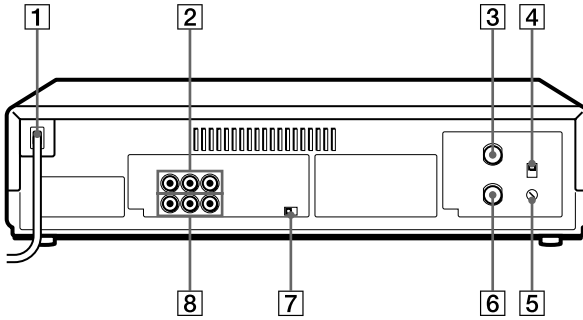
Index to parts and controls (continued)

Display window



- | | |
|--|--|
| 1 Tape indicator | 9 Audio channel/sound level indicator (15) |
| 2 STEREO indicator (15) | 10 Time counter/line/pitch adjustment/self duet setting/karaoke score/contrast indicator (15, 19, 32) |
| 3 APC (Adaptive Picture Control) indicator (30) | 11 Tracking indicator (29) |
| 4 PON indicator (37) | 12 Colour system indicators |
| 5 ASSIST indicator (38) | 13 Tape speed indicators (19) |
| 6 S.D. (self duet) indicator (36) | |
| 7 KEY indicator (35) | |
| 8 SCORE indicator (44) | |

Rear panel

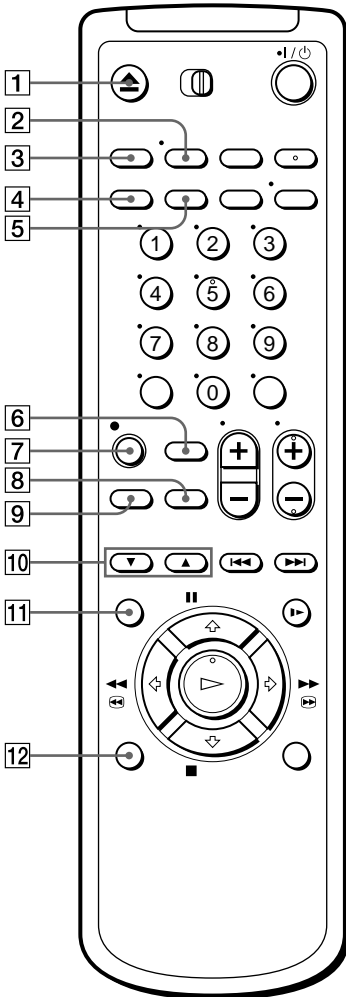


- | | |
|--|---|
| 1 Mains lead (7, 9) | 5 RF-CH (Radio Frequency-channel) screw (12) |
| 2 LINE-1 IN VIDEO/AUDIO L/R jacks (8) | 6 AERIAL OUT connector (9) |
| 3 AERIAL IN connector (9) | 7 NTSC PB (playback) switch (14) |
| 4 TV SYSTEM switch (12) | 8 LINE-1 OUT VIDEO/AUDIO L/R jacks (7) |

continued

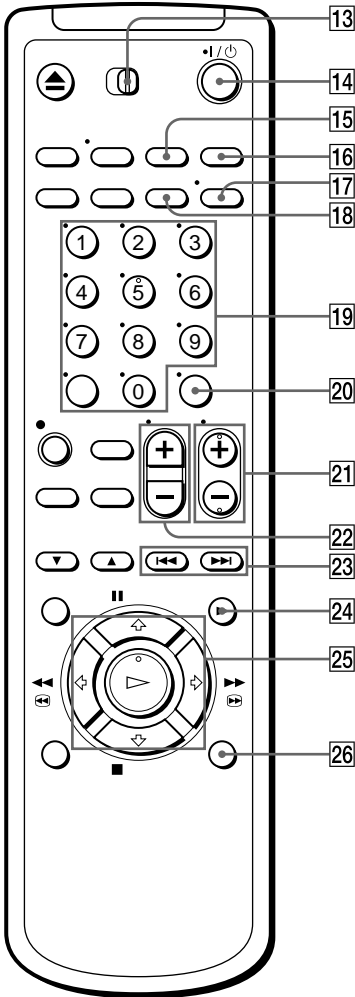
Index to parts and controls (continued)

Remote commander



- 1 ▲ EJECT button (14)
- 2 TV/VIDEO button (*for TV*) (6)
- 3 TRINITRON TV SYNCHRO PLAY button (17)
- 4 K. PROG (karaoke programme) button (41)
- 5 SCORE button (43)
- 6 INPUT SELECT button (19)
- 7 ● REC (record) button (19)
- 8 TRACKING AUTO (automatic)/MANUAL button (29)
- 9 SP (Standard Play)/LP (Long Play) (SP/EP (Extra Play)) button (19)
- 10 ▼/▲ TRACKING NORM (normal)/SLOW/STILL ADJUST buttons (29)
- 11 MENU button (8)
- 12 CLEAR button (15)

Remote commander (continued)



- 13 TV / VIDEO remote control switch (5)
- 14 I / ⏻ (on/standby) switch
- 15 R² (Reality Regenerator) button (29)
- 16 VIRTUAL SURROUND button (28)
- 17 AUDIO DUB (dubbing) button (47)
- 18 AUDIO MONITOR button (15, 48)
- 19 Programme number / - / - - (ten's digit) buttons (41)
- 20 DISPLAY button (15, 38)
- 21 PROG (programme) +/- buttons (for TV)
- 22 VOL (volume) +/- buttons (for TV)
- 23 ◀◀ / ▶▶ INDEX SEARCH / AMS buttons (27, 39)
- 24 ▶▶ SLOW button (22)
- 25 ■ PAUSE / ⏮ button (8, 14)
■ STOP / ⏭ button (8, 14)
◀◀ ◀ REW (rewind) / ⏪ button (8, 14)
▶▶ ▶ FF (fast-forward) / ⏩ button (8, 14)
▷ PLAY / OK button (8, 14)
- 26 × 2 button (22)

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