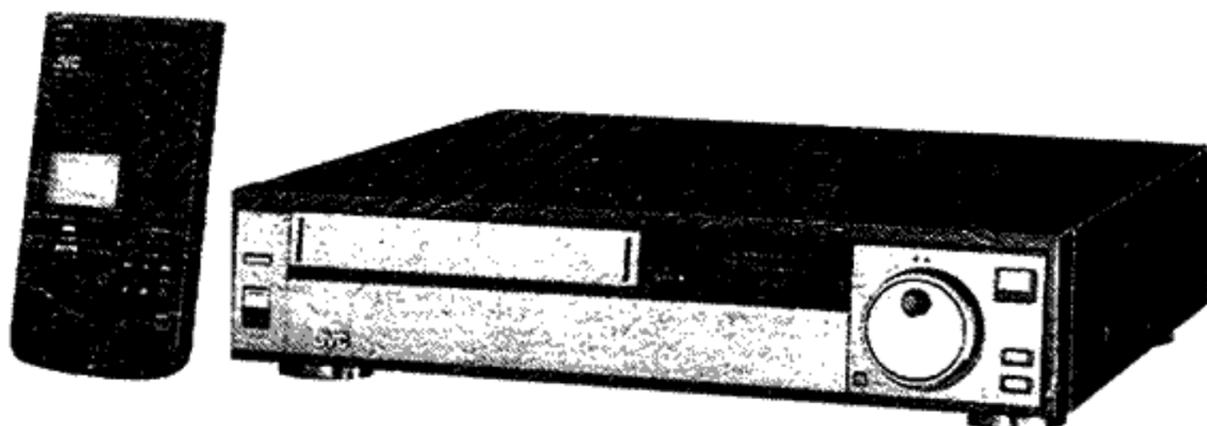


JVC

Hi-Fi STEREO VIDEO CASSETTE RECORDER

HR-S5800E/EG

S-VHS 625
VHS
PAL



SPECIFICATIONS *(The Specifications shown Pertain Specifically to The Model HR-S5800E)*

GENERAL

| | |
|------------------------|--|
| Power requirement | : AC 220 V~, 50/60 Hz |
| Power consumption | : 40 W |
| Temperature | : 5°C to 40°C (Operating) : -20°C to 60°C (Storage) |
| Operating position | : Horizontal only |
| Dimensions (WxHxD) | : 435 x 102 x 390 mm |
| Weight | : 7.0 kg |
| Format | : S-VHS/VHS PAL standard |
| Tape width | : 12.65 mm |
| Tape speed (SP) | : 23.39 mm/sec |
| (LP) | : 11.70 mm/sec |
| Maximum recording time | |
| (SP) | : 240 min. with E-240 video cassette |
| (LP) | : 480 min. with E-240 video cassette |

VIDEO

| | |
|-----------------------|--|
| Signal system | : PAL colour and separated Y/C signals, 625 lines/50 fields |
| Recording system | : Rotary two-head helical scan system with slant double-azimuth combination video heads |
| Input | : 0.5 to 2.0 Vp-p, 75 ohms, unbalanced |
| Output | : 1.0 Vp-p, 75 ohms, unbalanced |
| Signal-to-noise ratio | : 43 dB (Rohde & Schwarz noise meter) with PICTURE SHARPNESS control at centre position |
| Horizontal resolution | : More than 400 lines (S-VHS)/250 lines (VHS) with PICTURE SHARPNESS control at centre position |

AUDIO

| | |
|--------|---|
| Input | : Mic: -67 dBs, high impedance, unbalanced : AUDIO IN connector (RCA x 2): -8 dBs, more than 50 k-ohms, unbalanced : AUDIO/VIDEO socket (21-pin Peri connector): -3.8 dBs, (CENELEC standard), 10 k-ohms, unbalanced |
| Output | : AUDIO/VIDEO socket (21-pin Peri connector): -3.8 dBs, (CENELEC standard), high-impedance load : AUDIO OUT connector (RCA x 2): -6 dBs, high-impedance load less than 1 k-ohm, unbalanced (100 k-ohms, load) |

NORMAL AUDIO

| | |
|-----------------------|----------------------|
| Recording system | : Longitudinal track |
| No. of audio channels | : 1 (monaural) |
| Frequency range | : 70 Hz to 10,000 Hz |

Hi-Fi AUDIO-

| | |
|-----------------------|--|
| Recording system | : Deep-layer recording system conforming to stereo Hi-Fi VHS standard |
| No. of audio channels | : 2 Hi-Fi audio channels |
| Frequency response | : 20 Hz to 20,000 Hz |
| Dynamic range | : More than 90 dB |
| Wow and flutter | : Less than 0.005% WRMS |

TUNER

| | |
|--------------------------------|---|
| Tuning system | : Frequency synthesized tuner |
| TV channel storage capacity | : 48 positions (+ AUX position "AU") |
| Channel coverage | : VHF 47 - 111 MHz 111 - 300 MHz 302 - 470 MHz UHF 470 - 862 MHz |
| Aerial output | : UHF channel 36 (adjustable 32 - 40) |

TIMER

| | |
|---------------------|----------------------------|
| Clock reference | : Quartz-crystal |
| Programme capacity | : 1-year/8-programme timer |
| Memory back-up time | : 60 min. |

ACCESSORIES

| | |
|----------------------|--|
| Provided accessories | : Aerial cable, Infrared remote control unit, "R6" battery x 4, Audio cable (RCA-RCA), S-Video cable (4-pin/4-pin), S-VHS cassette tape (SE-180) |
| Optional accessories | : VPS adapter VU-V110E VPV adapter VU-V120E VPS/VPV adapter VU-V100E VPT adapter VU-V140E VPS/VPT adapter VU-V150E RGB signal converter KM-V7EG |

*Specifications shown are for SP mode unless otherwise specified.
Design and specifications subject to change without notice.*

INSTRUCTIONS

SAFETY PRECAUTIONS

ENGLISH

The rating plate and the safety caution are on the rear of the unit.

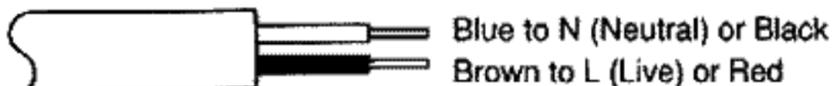
WARNING — DANGEROUS VOLTAGE INSIDE

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

IMPORTANT (In the United Kingdom) Mains Supply (240 V~, 50 Hz only)

IMPORTANT

Do not make any connection to the Larger Terminal coded E or Green. The wires in the mains lead are coloured in accordance with the following code:



If these colours do not correspond with the terminal identifications of your plug, connect as follows:

Blue wire to terminal coded N (Neutral) or coloured Black.

Brown wire to terminal coded L (Live) or coloured Red.

If in doubt — consult a competent electrician.

Omkopplaren OPERATE på denna apparat är sekundärt kopplad och skiljer inte apparaten från nätet i läge OPERATE OFF.

The OPERATE button does not completely shut off mains power from the unit, but switches operating current on and off.

BEMAERK: I stilling OFF er apparatet stadig forbundet med lysnettet. Hvis det ønskes fuldstændig afbrudt skal netledningen trækkes ud.

This unit is produced to comply with Directives 76/889/EEC, 82/499/EEC, 87/308/EEC and Standard IEC Publ. 65.

CAUTION

- When you are not using the recorder for a long period of time, it is recommended that you disconnect the power cord from the AC outlet.
- Dangerous voltage inside. Refer internal servicing to qualified service personnel. To prevent electric shock or fire hazard, remove the power cord from the AC outlet prior to connecting or disconnecting any signal lead or aerial.

WARNING

The switched AC outlet should not be used for connection of TVs and other apparatus in which unintended switching could result in fire or other hazard.

IMPORTANT: It may be unlawful to record or play back copyrighted material without the consent of the copyright owner.

Video tapes recorded with this video recorder in the LP (Long Play) mode cannot be played back on a single-speed video recorder.

WARNING

Regarding S-VHS recordings:

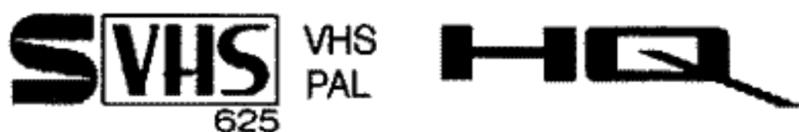
Since the S-VHS Euro System is a unified standard, S-VHS recordings are the same regardless of whether the original signal is PAL or SECAM. However, this recorder operates only in the VHS mode for recording a SECAM signal.

1. S-VHS recording is not possible when the input signal is SECAM.
2. When this is attempted, the S-VHS indicator goes off and the VHS recording circuit is automatically engaged.
3. The resulting tapes have the same limitations as described in "Regarding VHS recordings".

Regarding VHS recordings:

There are two different types of SECAM colour systems: SECAM-L, used in FRANCE (also called SECAM-West), and SECAM-B, used in the GRD, e.g. (also called SECAM-East).

1. This recorder can also receive SECAM-B colour television signals for recording and playback.
2. Recordings made of SECAM-B television signals produce monochrome pictures if played back on a video recorder of SECAM-L standard, or do not produce normal colour pictures if played back on a PAL video recorder with SECAM-B system incorporated (even if the TV set is SECAM-compatible).
3. SECAM-L prerecorded cassettes or recordings made with a SECAM-L video recorder produce monochrome pictures when played back with this recorder.
4. This recorder cannot be used for the SECAM-L standard. Use a SECAM-L recorder to record SECAM-L signals.



Cassettes marked "S-VHS" and "VHS" can be used with this video cassette recorder. However, S-VHS recordings are possible only with cassettes marked "S-VHS".

PRECAUTIONS

VIDEO RECORDER

Handling and storage

- Avoid using the recorder under the following conditions:
 - extremely hot, cold or humid places,
 - dusty places,
 - near appliances generating strong magnetic fields,
 - places subject to vibrations, and
 - poorly ventilated places.
- Be careful of moisture condensation.
- Avoid using the recorder immediately after moving from a cold place to a warm place. The water vapour in warm air will condense on the still-cold video head drum and tape guides and may cause damage to the tape and the recorder.
- Handle the recorder carefully
 - Do not block the ventilation openings.
 - Do not place anything heavy on the recorder.
 - Do not place anything which might spill and cause trouble on the top cover of the recorder.
 - Use in horizontal (flat) position only.
- In case of transportation,
 - Avoid violent shocks to the recorder during packing and transportation.
 - Before packing, be sure to remove the cassette from the recorder.

Moisture condensation

- If you pour a cold liquid into a glass, water vapour in the air will condense on the surface of the glass. This is called moisture condensation.
- Moisture condensation on the head drum, one of the most crucial parts of the video recorder, will cause damage to the tape.
- Moisture condensation is apt to occur under the following conditions:
 - when the recorder is moved from a cold place to a warm place, and
 - under extremely humid conditions.
- In conditions where moisture condensation may occur, keep the power cord plugged in an AC outlet and the power switched on; this will help prevent condensation from occurring. When condensation has occurred, it will not evaporate quickly once the power is switched on. Wait a few hours for the recorder to become dry.

VIDEO CASSETTES

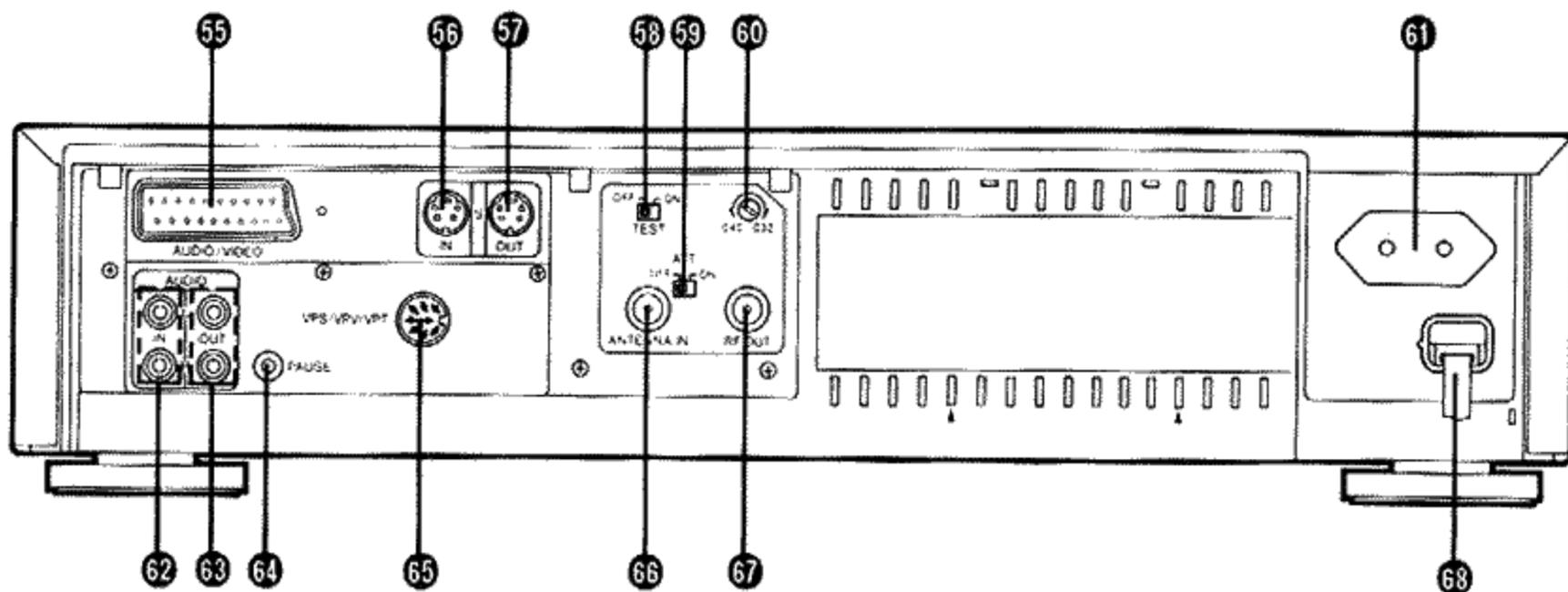
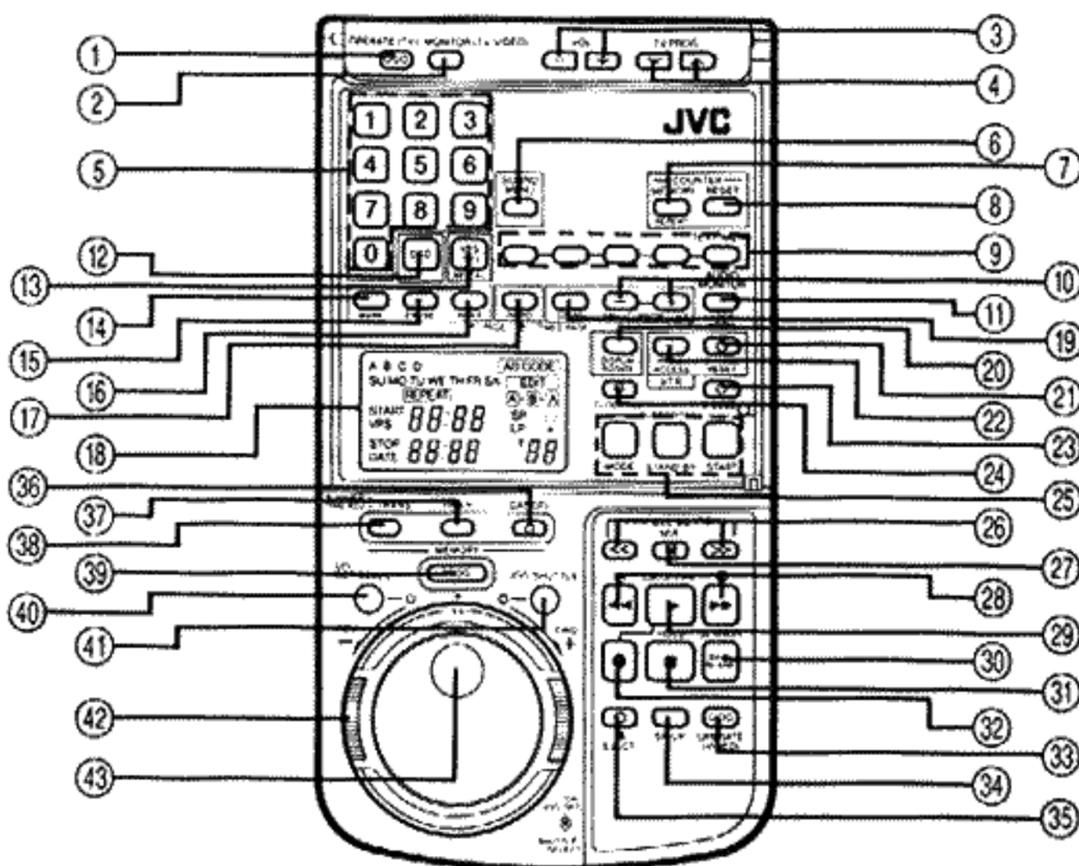
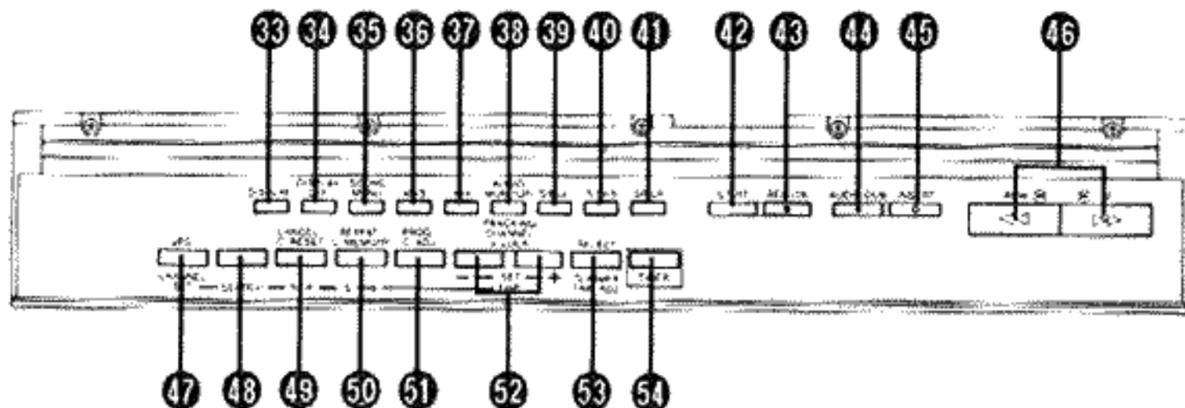
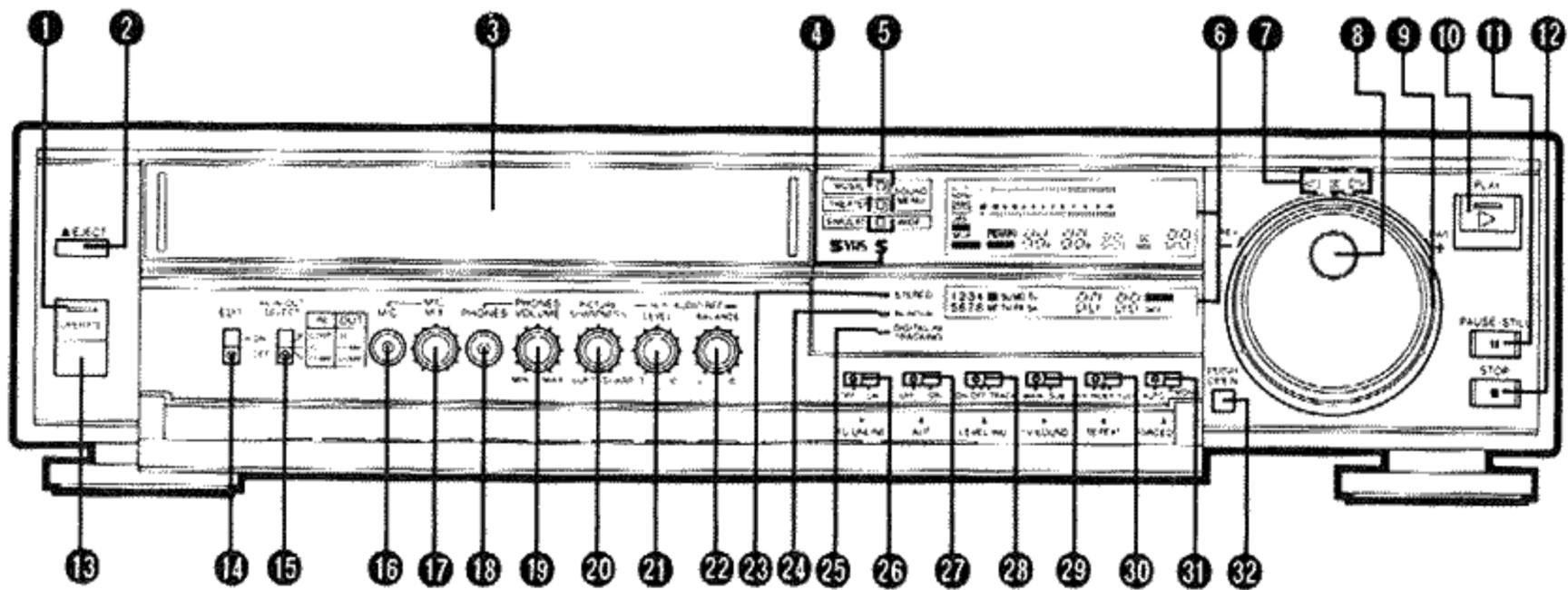
- Avoid exposing the cassettes to direct sunlight. Keep them away from heaters.
- Avoid extreme humidity, violent vibrations or shocks, strong magnetic fields (near a motor, transformer or magnet) and dusty places.
- Place the cassettes in cassette cases and position vertically.

REMOTE CONTROL UNIT

- Avoid violent shocks, especially take care not to drop the unit.
- Take care not to allow liquid to spill into the unit.
- Do not place heavy objects on the unit.
- Avoid leaving the unit in places subject to direct sunlight or extremely high temperatures.

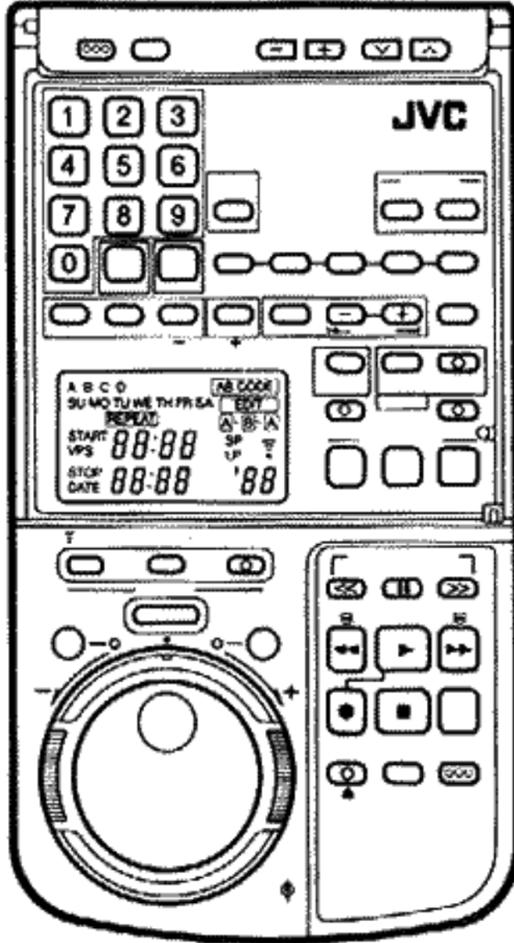
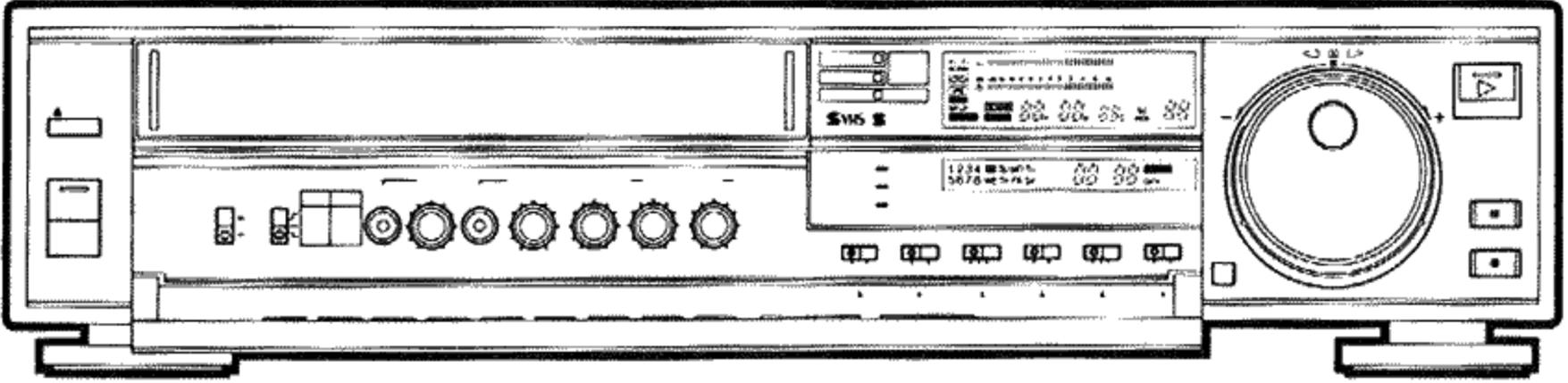
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FEATURES

ENGLISH



VCR

- Super VHS pictures with horizontal resolution of more than 400 lines.
- Hi-Fi VHS stereo sound with more than 90-dB dynamic range.
- Sound Menu system to choose sound effect modes from among Stereo Wide Music, Stereo Wide Theater, Simulated Stereo Music, and Simulated Stereo Theater.
- Super DA-4 head system for high-quality pictures in all modes including special-effects playback.
- Multi-purpose Jog/Shuttle control dials and full array of advanced editing functions including Insert Editing and Audio Dubbing.
- Quick-response full-loading mechanism minimizes waiting time: one second from Stop to Play.
- Digital AV Tracking for immediate automatic adjustment to optimum Hi-Fi audio and video tracking.
- PLL frequency-synthesized wide-band cable tuner with 48-channel storage capacity.
- Flexible timer programming options: 24-hour timer, 1-year/8-programme timer, and off-timer.
- Sound-Multiplex decoder.
- Intelligent On-Screen Display system.

REMOTE CONTROL UNIT

- Independent timer programming with 4 programme memories and built-in LCD screen.
- Multi-purpose Jog/Shuttle control dials.
- Blank Search for locating the end of a recorded section with automatic display of remaining tape time.
- A complete array of Realtime and Index search functions, plus Skip Search.
- Fast- and slow-motion playback at various speeds in both directions.
- Duet Editing for simultaneous control of two JVC decks in editing.
- Teletext compatibility (with optional adapter).

Other major features

- Automatic repeat playback
- Retake function
- Instant "summer time" adjustment
- Child Lock system
- Display OFF function
- Automatic functions including Next-Function Memory
- Picture sharpness control
- Preroll-capable REMOTE PAUSE

Front panel

1 OPERATE button with LED indicator

Press to apply operating power to the recorder. The LED indicator will light. Loading a cassette also turns the power on.

2 EJECT button

Press while in the Stop mode to eject the tape.

3 Cassette loading slot

Insert a VHS cassette. The door will close and the "cassette loaded" indicator will appear on the FDP (fluorescent display panel).

4 S-VHS mode indicator

Lights when a cassette marked S-VHS is inserted, showing that the recorder is in the S-VHS mode. To record in the VHS mode with an S-VHS cassette, cancel the S-VHS mode by pressing the S-VHS button 10. In playback, S-VHS recordings are automatically detected and played back in the S-VHS mode.

5 Sound Effect indicators

These indicators light in different combinations according to the setting of the SOUND MENU button 15.

MUSIC: Lights together with SIMULATE/WIDE when the SOUND MENU button is set to the Stereo Wide Music or Simulated Stereo Music mode. Both the lows and highs of the sound frequency spectrum will be boosted.

THEATER: Lights together with SIMULATE/WIDE when the SOUND MENU button is set to the Stereo Wide Theater or Simulated Stereo Theater mode. The lows of the sound frequency spectrum will be boosted.

SIMULATE/WIDE: Lights green for SIMULATE, and red for WIDE, together with either MUSIC or THEATER. In the WIDE setting, the stereo-wide effect will be added to the stereo sound, while in the SIMULATE setting the monaural sound will be heard as a simulated stereo sound.

6 Fluorescent Display Panel (FDP)

(See page 9.)

7 Still/Jog/Search indicators

Light to show tape status and direction of movement.

8 JOG dial (inner control)

Use for jog search, for timer and clock setting, and for channel selection.

9 SHUTTLE ring (outer control)

Use for variable-speed search, and for timer and clock setting.

10 PLAY button

- Press to play back a tape.
- Press to cancel the Special-Effects Playback mode. (See page 26.)
- Press to start recording from the Record-Pause mode.
- Press to start audio dubbing from the Audio Dub Standby mode.

11 PAUSE/STILL button

- Press while in the Record mode to stop the tape temporarily to avoid recording of unwanted material.
- Press while in the Play mode to view a still picture.
- The still picture can be advanced each time this button is pressed.

12 STOP button

Press to stop the tape.

13 Infrared beam receiving window

14 EDIT switch

Normally set to OFF. For making multi-generation dubs, set it to the ON position. (See page 36.)

15 AV IN/OUT SELECT switch

Selects the input or output signal via the 21-pin AUDIO/VIDEO socket 16. Set this switch as required for TV connection, or for external source recording and editing. (See pages 11 and 36.)

16 MIC jack

17 MIC MIX control

For control of the microphone input level for microphone-mix recording via the MIC jack 16. When making an adjustment, connect a pair of headphones to monitor the input level.

18 PHONES jack

19 PHONES VOLUME control

Adjusts the level of audio output from the headphone jack.

20 PICTURE SHARPNESS control

Turn this knob clockwise to make the picture sharper. Turn counterclockwise to give the picture a softer tone. Effective only for playback pictures. (No effect on recording.)

21 Hi-Fi AUDIO REC LEVEL control

Turn this control knob referring to the audio level indicators on the display panel. When the indicators light up to or near 1 dB for the loudest input signal, the recording level is optimum.

22 Hi-Fi AUDIO REC LEVEL BALANCE

Adjusts the L and R channels relative to each other. Turn counterclockwise to boost the hi-fi audio left-channel recording level; clockwise to boost the right-channel recording level.

23 STEREO indicator

Lights when a stereo programme is being received.

24 BILINGUAL indicator

Lights when a bilingual programme is being received.

25 DIGITAL AV TRACKING indicator

Lights in the Digital AV Tracking mode. Blinks while adjusting. (See page 23.)

26 AC ONLINE switch

OFF position: Power is available from the rear panel AC outlet regardless of whether the recorder is on or off.

ON position: Power is available from the rear panel AC outlet only when the recorder is on. When used in combination with the built-in timer, this enables timer-controlled power supply for the connected equipment.

27 ALC (Automatic Level Control) switch

Set to OFF when adjusting the hi-fi audio recording level manually.

28 LEVEL IND. switch

Selects the function of the audio level indicators/Hi-Fi tracking meter. (See page 20.)

29 TV SOUND select switch

MAIN: To record the main soundtrack (local language).
SUB: To record the sub soundtrack (foreign language).
 (See pages 19 and 28.)

- 30 REPEAT switch**
FULL: To play back the entire tape repeatedly.
INDEX: To play back a segment between two adjacent index codes. (See page 24.)
OFF: No repeat playback.
- 31 FORCED switch**
 Set to MONO when the quality of the stereo sound being received is poor. The broadcast will be received in monaural with improved results. (See page 28.)
- 32 PUSH OPEN button**
 Press to open the foldout control panel. To close the panel, lift it up and press in.
- 33 DISPLAY button**
 Press to switch the display between the realtime tape counter, remaining tape time, and date. Also press to change the display from the Timer Set mode to the Clock mode.
- 34 DISPLAY OFF button**
 To turn off indications on the front panel.
- 35 SOUND MENU button**
 To select the sound effect mode. Each time the button is pressed, the sound effect mode changes in the following order: Stereo Wide Music, Stereo Wide Theater, Simulated Stereo music, Simulated Stereo Theater, then OFF. The indicators **5** will light to show the selected mode.
- 36 AV/S button**
 While in the AUX mode, select S or AV according to the source connection.
S: When recording a source connected to the S IN connector **59**, press this button so that the "S" indicator lights on the FDP.
AV: When recording a source connected to the AUDIO/VIDEO socket **60**, press this button so that the "S" indicator does not light on the FDP.
- 37 MIX button**
 Press to select for listening among either the hi-fi or normal soundtracks or a mixture of the two. (See page 20.)
- 38 AUDIO MONITOR button**
 Each time this button is pressed, the audio channel to be output changes and is indicated by the L and R indicators on the FDP. (See page 20.)
- 39 SIMUL button**
 When recording FM simulcast TV programmes, press this button (anytime, except when in the AUX mode) to set to the simulcast mode. "SC" will light on the FDP, and the video from the built-in tuner and the hi-fi audio signals from the rear panel AUDIO IN connectors will be recorded. (See page 28.)
- 40 S-VHS button**
 Selects between S-VHS and VHS recording modes. S-VHS recordings are possible only when S-VHS cassettes are used in the S-VHS recording mode. (See page 10.)
- 41 SP/LP button**
 Press to select the recording speed.
- 42 START button**
 Press to engage the 24-Hour Instant Timer Set mode. (See page 30.)
- 43 REC/ITR button**
- Press once to start recording.
 - Press twice to engage the Instant Timer Recording mode.
 - Also use to set the required recording time in the 24-Hour Instant Timer Set mode.
- 44 AUDIO DUB button**
 Press while in the Still mode, then press the PLAY button **10** to start audio dubbing.
- 45 INSERT button**
 Press for insert editing. (See page 38.)
- 46 REW/FF/Shuttle Search button**
- Press while in the Stop mode to rewind or fast-forward the tape.
 - Press while in the Play mode for Shuttle Search in the reverse or forward direction.
- 47 VPS/CHANNEL SET button**
 This is a dual-function button.
- as a VPS button — press to enter the VPS command while in the Timer Set mode.
 - as a CHANNEL SET button — press to engage the Real Channel mode.
- 48 SEARCH button**
 Press to initiate real channel automatic scan tuning. (See page 18.)
- 49 CANCEL/C. RESET/SKIP button**
 This is a triple-function button.
- as a CANCEL button — press to cancel the programmed data in the Timer Set mode.
 - as a C. RESET button — press to reset the realtime counter reading to "0H 00M 00s".
 - as a SKIP button — press to skip unnecessary channels in the Real Channel mode.
- 50 REPEAT/C. MEMORY/STORE button**
 This is a triple-function button.
- as a REPEAT button — press to enter the repeat command in the Timer Set mode.
 - as a C. MEMORY button — press to engage the Counter Memory mode.
 - as a STORE button — press to store the tuned-in channel in the Real Channel mode.
- 51 PROG./C. ADJ. button**
 Press to change the recorder's mode in the following order: Clock mode, Timer Set mode, Clock Set mode, then return to the Clock mode.
- 52 TRACKING/CHANNEL/V. LOCK/SET/FINE (-/+) buttons**
 These buttons have five functions.
- as TRACKING buttons — press both to cancel the automatic Digital AV Tracking mode, then press either for manual tracking control. (See page 23.)
 - as CHANNEL buttons — press either button to scan to a desired channel.
 - as V. LOCK buttons — press either to reduce vertical vibrations, if observed in the Still mode.
 - as SET buttons — press to set the correct data in the Clock Set or Timer Set mode.
 - as FINE buttons — press to shift the frequency in either direction to fine-tune in a specific station in the Real Channel mode.

Ⓔ SELECT/SUMMER TIME ADJ. button

This is a dual-function button.

- as a **SELECT** button — press to select the item to be set in the Clock Set, Real Channel or Timer Set mode.
- as a **SUMMER TIME ADJ.** button — press and quickly release to advance the clock by one hour, hold it pressed for 2 seconds to set the clock back by one hour (See page 15.)

Ⓕ TIMER button

Press to engage the Timer Standby mode.

Rear Panel**Ⓖ AUDIO/VIDEO socket**

A 21-pin standardised audio/video input/output socket for AV connection to a TV or a 2nd video recorder. The input to this socket can be recorded in the AUX mode ("AU" in the channel display) when the AV/S button pressed so that the "S" indicator does not appear on the FDP. The input to and output from this socket are selected with the AV IN/OUT SELECT switch Ⓖ.

Ⓖ S IN connector

A special S-VIDEO input connector (4-pin). To record from this terminal, connect an appropriate source to this terminal using the provided S-VIDEO cable. Use the AUDIO IN connectors for making audio signal connections. When recording from this connector, engage the AUX mode and press the AV/S button so that the "S" indicator lights on the FDP.

Ⓖ S OUT connector

A special S-VIDEO output connector (4-pin). Connect to the S-VIDEO input terminal of a 2nd S-VHS video recorder or a television equipped with the same type of terminal, using the provided S-VIDEO cable.

Ⓖ TEST signal switch

Set to ON when tuning your TV receiver for the video channel. A test signal in the form of two vertical white bars will be available.

Ⓖ Attenuator switch (ATT.)

Set to OFF to receive broadcasts from distant stations. Set to ON to receive broadcasts of high field strength.

Ⓖ RF converter frequency adjustment screw (CH40 – CH32)

(See page 12.)

Ⓖ AC OUTLET

Connect the power cord of other audio or video equipment (such as an FM tuner) requiring less than 2 amperes of power.

Warning:

The switched AC outlet should not be used for connection of TVs and other apparatus in which unintended switching could result in fire or other hazard.

This outlet is controlled by the AC ONLINE switch Ⓖ. When the switch is set to OFF, this outlet supplies (220 V~, 50/60 Hz) regardless of the OPERATE button setting as long as the power cord of the recorder is plugged in.

When the AC ONLINE switch is set to ON this outlet supplies power only when the recorder is on.

Ⓖ AUDIO IN connectors

Connect an audio tape recorder or other audio sources for recording sound.

Ⓖ AUDIO OUT connectors

Both hi-fi and normal audio signals can be obtained from these connectors. The output can be selected with the AUDIO MONITOR button Ⓖ and MIX button Ⓖ.

Ⓖ PAUSE terminal

When using this recorder as the source player, connect to the PAUSE OUT terminal of a second VCR (if so-equipped) for synchronized preroll operation. This terminal can also be used for editing from a JVC VideoMovie camera/recorder using the Master Edit Control system.

Ⓖ VPS/VPV/VPT connector

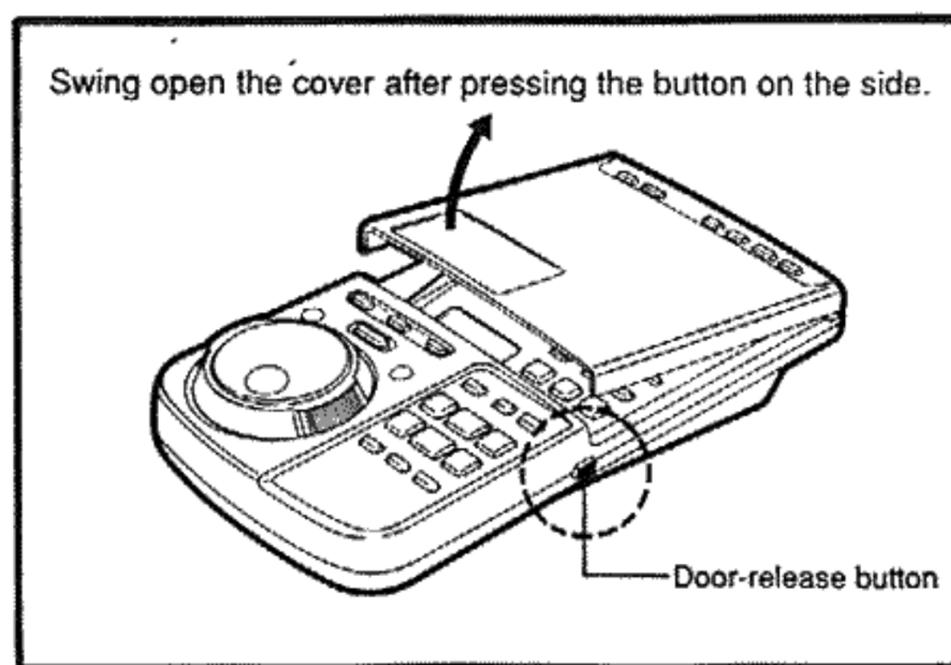
Connect the optional VPS adapter; or connect the VPT (VPV) adapter or VPS/VPT (VPV) adapter for decoding teletext programmes and for teletext timer programming.

Ⓖ Aerial input connector (ANTENNA IN)

Connect an aerial to this connector.

Ⓖ RF OUT connector

Connect to the aerial terminal of a TV receiver through the aerial cable (provided).

Ⓖ Power cord**Remote Control Unit****TV operation buttons (designated TV models only)****Ⓖ OPERATE (TV) button**

Press to turn the TV power on or off.

Ⓖ MONITOR (TV/VIDEO) button

Press to select the TV's operating mode.

TV: For viewing broadcast programmes or tape programmes via RF OUT connection.

VIDEO: For viewing programmes via the AV connection.

Ⓖ VOL buttons (- / +)

Press to decrease or increase the TV's sound volume.

Ⓖ TV PROG. buttons (∨ / ∧)

Press to select a desired channel on the TV receiver.

Ⓖ Multi-purpose numeric keys

Channel selection:

See page 17.

Realtime Go-To and Search functions:

See page 34.

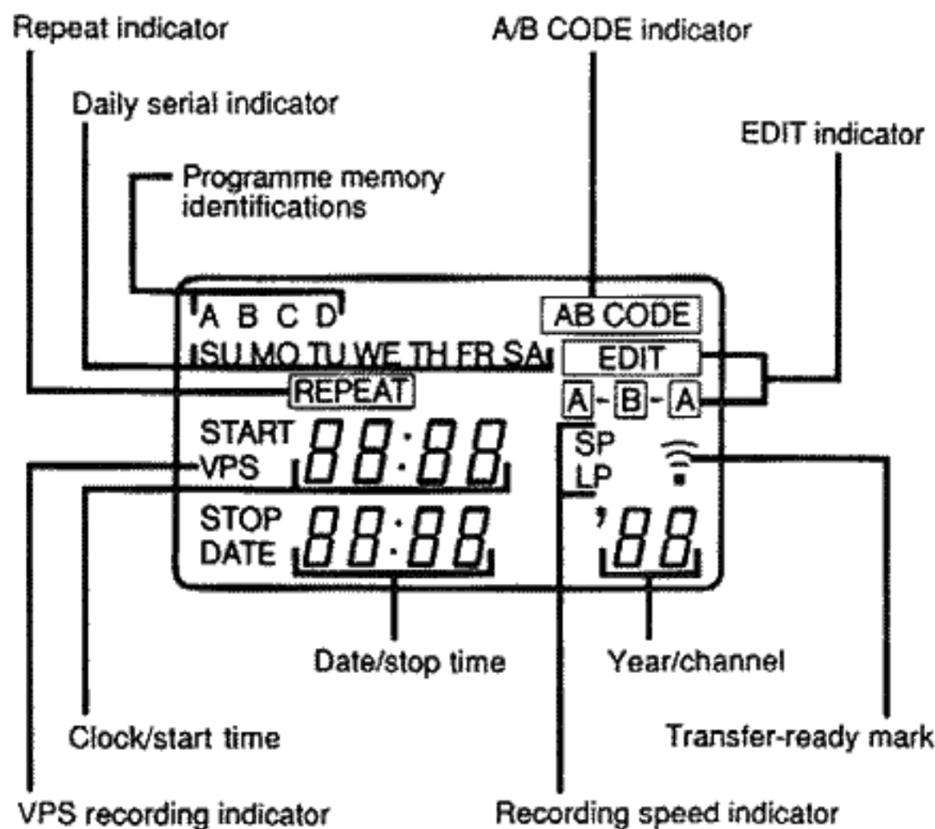
Index Search:

See page 35.

Ⓖ SOUND MENU button

Functions same as Ⓖ.

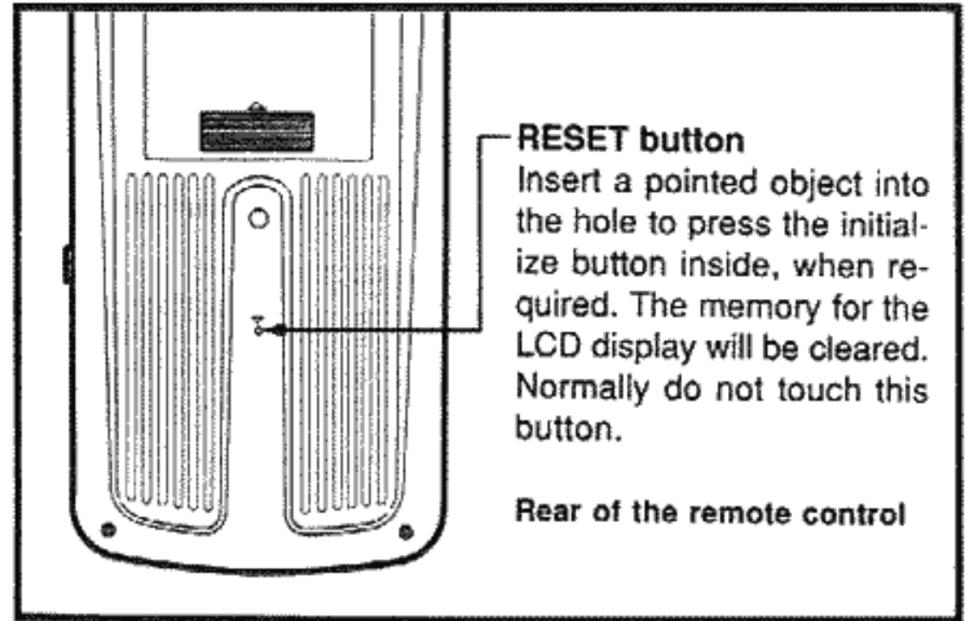
- ⑦ **COUNTER MEMORY/REPEAT button**
Functions same as ⑥ as a REPEAT/C. MEMORY button.
- ⑧ **COUNTER RESET button**
Functions same as ④ as a C. RESET button.
- ⑨ **Teletext buttons**
For teletext operation. (See page 42.)
- ⑩ **CURSOR (←/→) buttons**
 - Press to specify the direction in the Realtime Search mode. (See page 34.)
 - Functions same as ⑫ as SET buttons.
- ⑪ **AUDIO MONITOR button**
Functions same as ⑩.
- ⑫ **OSD (On-Screen Display) button**
 - Press to select the language for on-screen messages. (See page 14.)
 - Press to cancel instantly the on-screen remote programming display.
- ⑬ **VPS/CH button**
Functions same as ④.
- ⑭ **MARK button**
Press during playback or recording to put an index code onto the tape. (See page 35.)
- ⑮ **ERASE button**
Press during playback to erase an index code. (See page 35.)
- ⑯ **INDEX button**
Press to engage the Index Search mode. (See page 35.)
- ⑰ **INTRO button**
Press to engage the Intro Search mode. (See page 35.)
- ⑱ **LCD (Liquid Crystal Display) panel**
Refer to this panel when programming the remote control's built-in timer memory.



- ⑲ **GO-TO button**
Press to engage the Realtime Go-To mode. (See page 34.)
- ⑳ **DISPLAY button**
Press to switch the display among the realtime tape counter, remaining tape time and date.
Also press to change the display from the Timer Set mode to the Clock mode.
- ㉑ **VTR CANCEL button**
Press to cancel the programmed data held in the recorder's timer memory in the Timer Set mode.
- ㉒ **VTR PROG. button**
Press to engage the recorder's Timer Set mode.
- ㉓ **A/B CODE button**
When using two JVC video decks, press to switch this remote control from the "A" mode to "B" mode, or vice versa, depending on the deck to be controlled. (See pages 8 and 37.)
- ㉔ **CLOCK ADJ button**
Press to adjust the clock of the remote control.
- ㉕ **EDIT MODE, STAND-BY and START buttons**
Duet Editing controls for simultaneous control of two JVC decks in editing. (See page 37.)
- ㉖ **VARIABLE SEARCH buttons**
Press either button to search for a specific segment of the programme at variable speeds. (For details, see page 26.)
- ㉗ **⏸ (Pause/Still) button**
- ㉘ **⏮/⏭ (Rewind)(Fast-Forward)(Shuttle Search) buttons**
- ㉙ **▶ (Play) button**
- ㉚ **SKIP/BLANK SEARCH button**
 - Press while in the Play mode to skip through unwanted tape segments. (See page 24.)
 - Press in the Stop mode to engage the Blank Search mode. The tape will automatically stop at the beginning of a non-recorded section. (See page 29.)
- ㉛ **■ (Stop) button**
- ㉜ **● (Record) button**
Press together with the ▶ button ㉙ to start recording.
- ㉝ **OPERATE (VIDEO) button**
Press to turn the recorder power ON or OFF.
Keep this button pressed for 2 seconds when turning the power off to engage the Child Lock mode. (See page 9.)
- ㉞ **SP/ LP button**
Functions same as ④.
- ㉟ **EJECT button**
Press while in the Stop mode to eject the cassette.
- ㊱ **MEMORY CANCEL button**
Press to cancel the programmed data in the remote control's timer memory.
- ㊲ **TIMER button**
Functions same as ④.
- ㊳ **TRANS/SUMMER TIME ADJ button**
This is a dual-function button.
 - as a TRANS button — press to transfer the data held in the remote control's timer memory to the recorder.
 - as a SUMMER TIME ADJ button — press to adjust the remote control's clock to the summer time setting. (See page 16.)

- ③⑨ **MEMORY PROG. button**
Press to programme the remote control's timer memory.
- ④⑩ **CH/SET-SELECT button and indicator**
Press this button first when you are going to use the JOG/SHUTTLE controls for purpose other than search. The indicator will light, and will automatically turn off after about one minute if the JOG/SHUTTLE controls are left unused.
- ④⑪ **JOG/SHUTTLE button and indicator**
Press this button first when you are going to use the JOG/SHUTTLE controls for search. The indicator will light, and will automatically turn off after about one minute if the JOG/SHUTTLE controls are left unused.
- ④⑫ **SHUTTLE ring (outer control)**
Functions same as ③.
- ④⑬ **JOG dial (inner control)**
Functions same as ③.

Remote Control Unit's RESET button



RESET button
Insert a pointed object into the hole to press the initialize button inside, when required. The memory for the LCD display will be cleared. Normally do not touch this button.

Rear of the remote control

Note:

When the optional VPT (VPV) adapter is connected, four coloured keys and several buttons have additional teletext functions, as indicated by their additional labels.

Remote Control Unit

A/B code switching

When you own two JVC video decks, this remote control can operate both decks separately; they do not respond simultaneously to the remote control's signal, if they are set to respond to different codes. Initially this recorder is set in the "A" mode.

To change the mode, carefully follow the instructions below:

- (1) Unplug the power cord of the recorder from the AC outlet.
- (2) Press the A/B CODE select button to engage the "B" mode; "B CODE" will appear on the LCD.
- (3) Plug the power cord of the recorder into the AC outlet.
- (4) Turn on the power of the recorder using the remote control's OPERATE (VIDEO) button ③③.

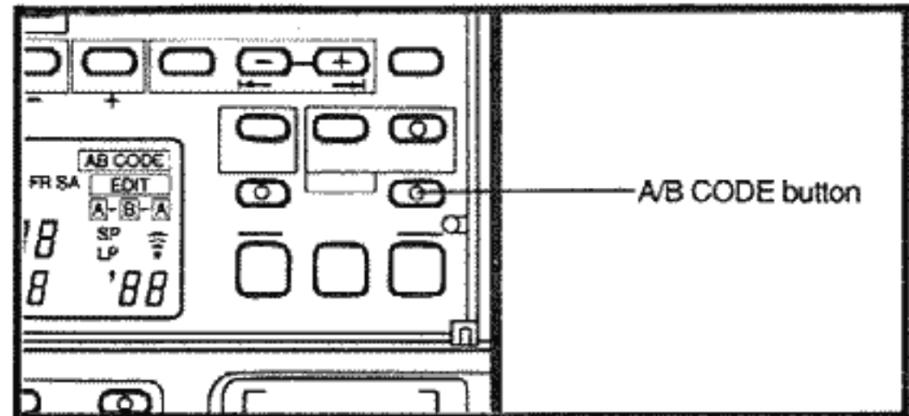
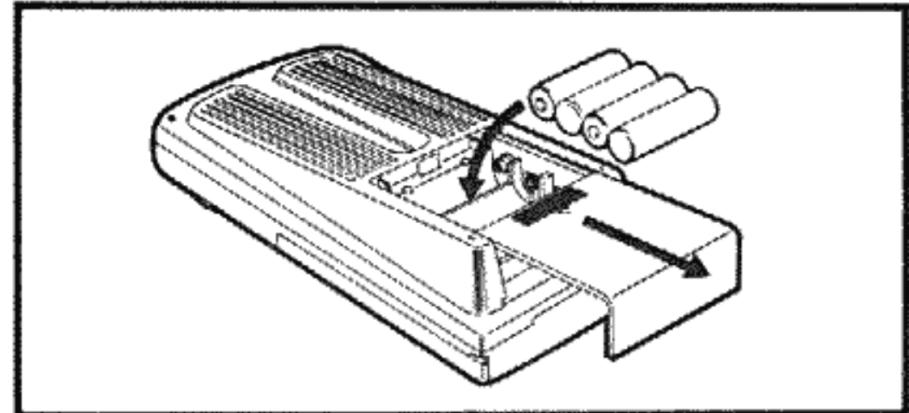
The recorder "memorizes" this B code and will respond only to the B code signals. Set the other deck to respond to the A code signals in the same procedure.

Note:

Do not operate other remote controls after you have plugged the recorder into the AC outlet and before you press the OPERATE (VIDEO) button of this remote control.

CAUTION:

Some televisions may malfunction in response to this remote control when used in the "B" mode. If this should happen, switch the mode back to "A".



Operating distance for remote control unit

- The maximum operating distance is about 8 m.

Installing the batteries

- Insert four "R6"-size batteries (provided) into the battery compartment on the rear of the remote control unit, observing correct polarity.

CAUTION:

Do not install a combination of old and new batteries. (Never install a combination of an alkaline battery and a manganese battery.)

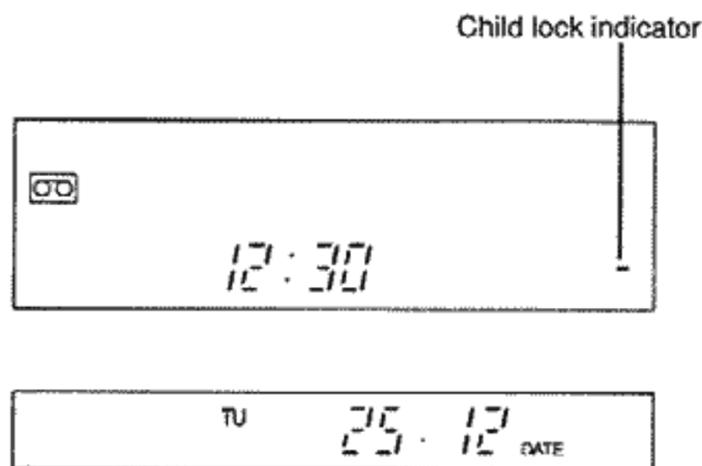
CHILD LOCK FUNCTION

ENGLISH

The Child Lock function is for preventing accidental operation by young children, or other unwanted operation, such as playing back or recording over an important cassette you may have left inserted in the recorder. By engaging the Child Lock mode, the operation buttons on the recorder become ineffective, unless the remote control is used.

To engage the Child Lock mode

- Press the remote control's OPERATE (VIDEO) button (33) to turn the recorder power off and keep this button pressed for about 2 seconds after the power LED indicator has gone off.
- The Child Lock indicator (—) will appear in the channel display section on the FDP to show that the recorder is now in the Child Lock mode.



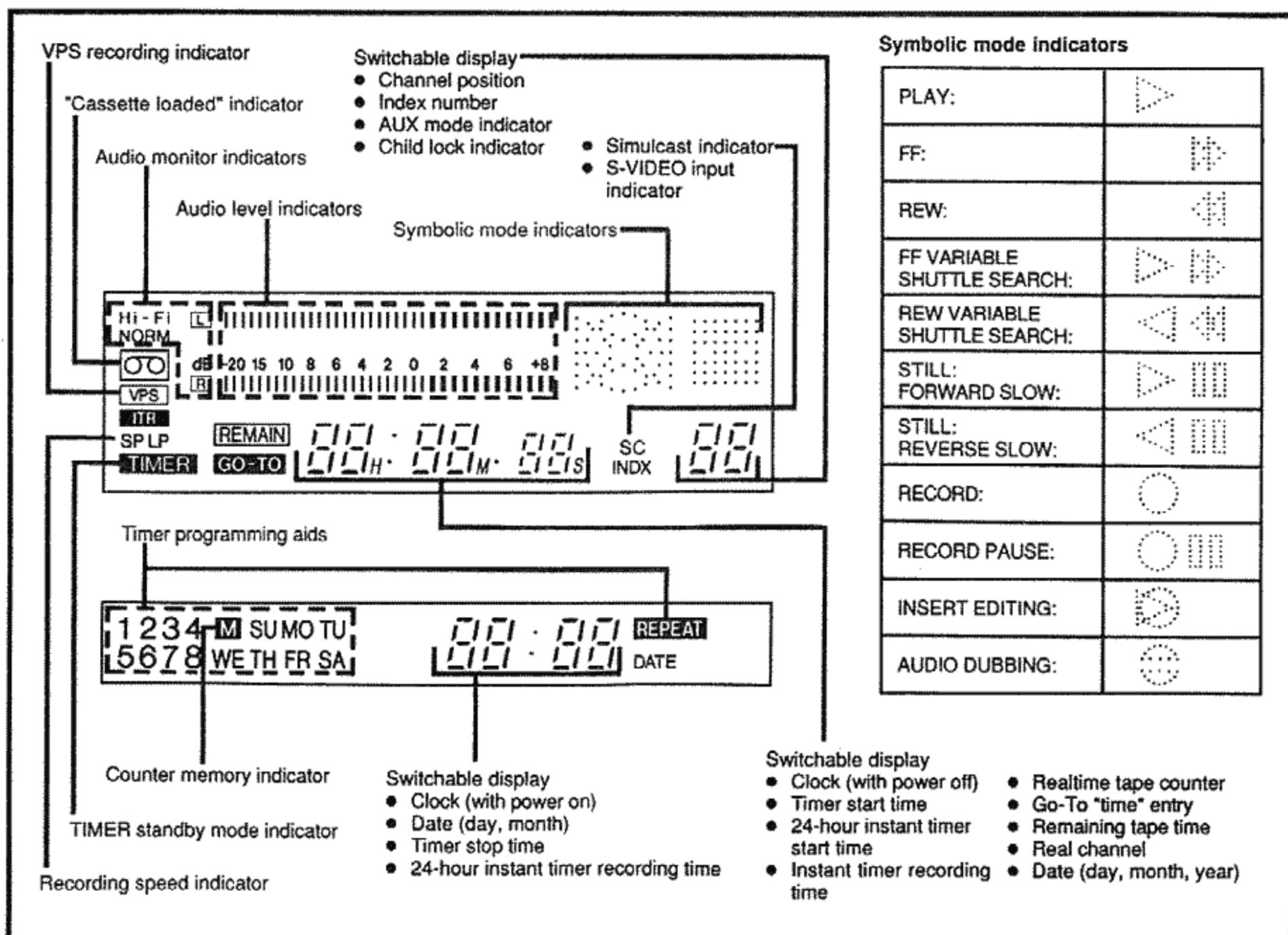
To disengage the Child Lock mode

- When the remote control's OPERATE (VIDEO) button is pressed to turn the recorder power on, this disengages the Child Lock mode. The recorder will turn on and the corresponding display will appear with the channel number appearing where the child lock indicator appeared before.
- Pressing the TIMER button during timer recording also disengages the Child Lock mode.

Notes:

- While in the Child Lock mode, the recorder can receive timer programmed data from the remote control.
- Timer recording is possible also, even while in the Child Lock mode. After timer recording has been performed, the Child Lock mode remains in effect.
- Even after automatic cassette ejection at tape end, following timer recording, the Child Lock mode remains in effect.
- It is possible to insert a cassette while in the Child Lock mode. After inserting a cassette, the Child Lock mode remains in effect.

DISPLAY PANEL INDICATIONS



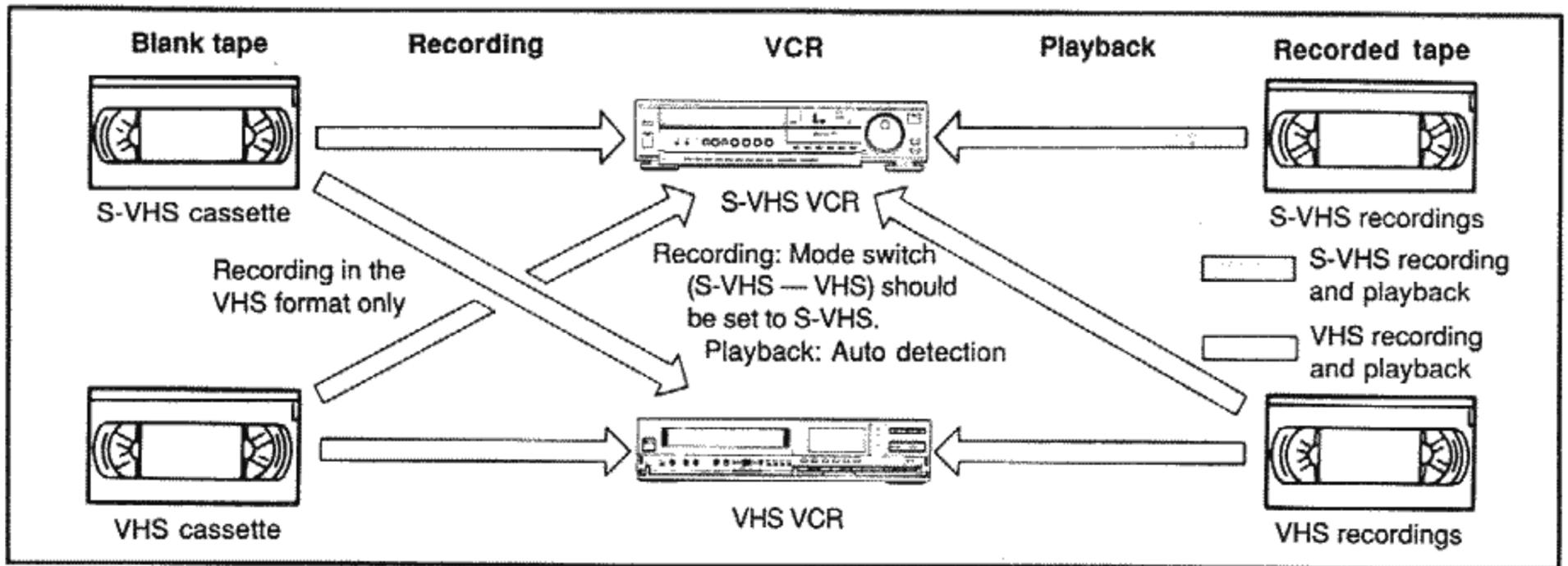
INFORMATION ON THE S-VHS SYSTEM

S-VHS vs. VHS

- VHS is the world's most popular video format. If you owned a VCR before this recorder, most likely it was a VHS machine.
- S-VHS is a new video sub-format based on VHS. It offers superior picture quality with a horizontal resolution of more than 400 lines.

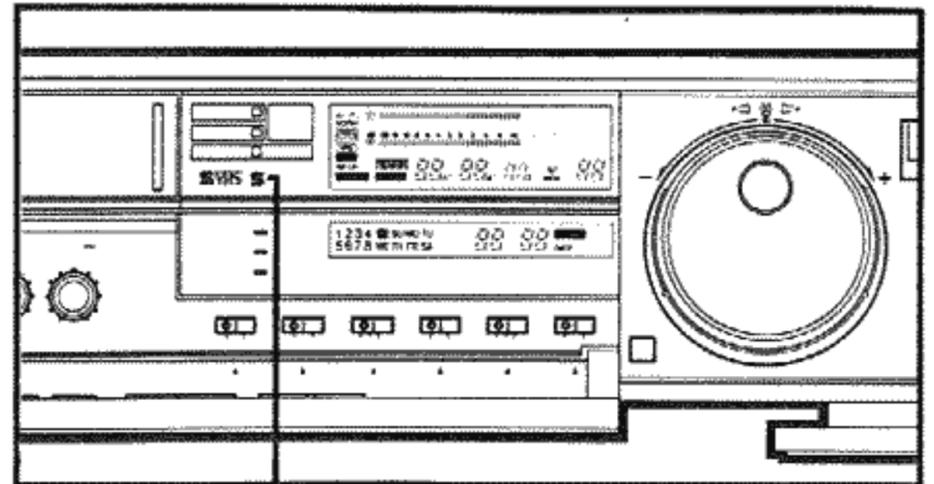
- This recorder is equipped for recording and playback in both the S-VHS and VHS modes. Therefore, you can still play back your VHS software programmes and previously recorded family recordings.
- You can switch to the world of S-VHS for your new recordings to enjoy breath-taking picture quality. Or to exchange recordings with someone whose VCR is not S-VHS, simply record in the VHS mode, whether with a regular VHS cassette or an S-VHS cassette.

COMPATIBILITY BETWEEN S-VHS AND VHS



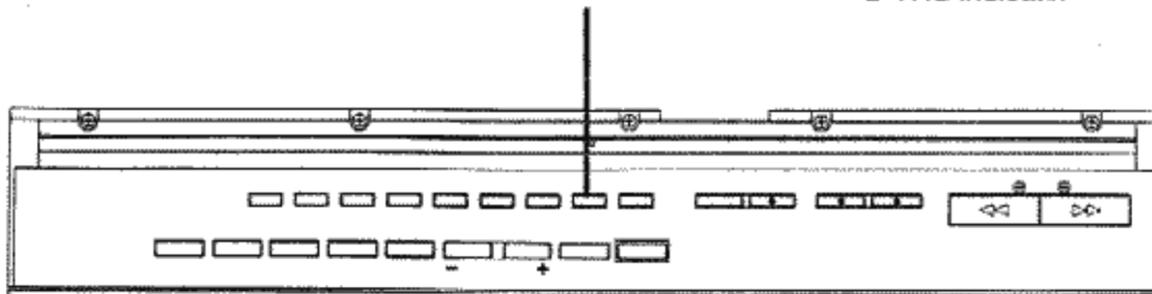
S-VHS RECORDING AND PLAYBACK

- To record in the S-VHS mode, insert an S-VHS cassette. The "S-VHS" indicator will light, and you are ready to record in the S-VHS mode.
- To record in the VHS mode with an S-VHS cassette, press the S-VHS button to extinguish the "S-VHS" indicator.
- During playback, the S-VHS recordings are automatically detected and played back in the S-VHS mode with the "S-VHS" indicator lit.



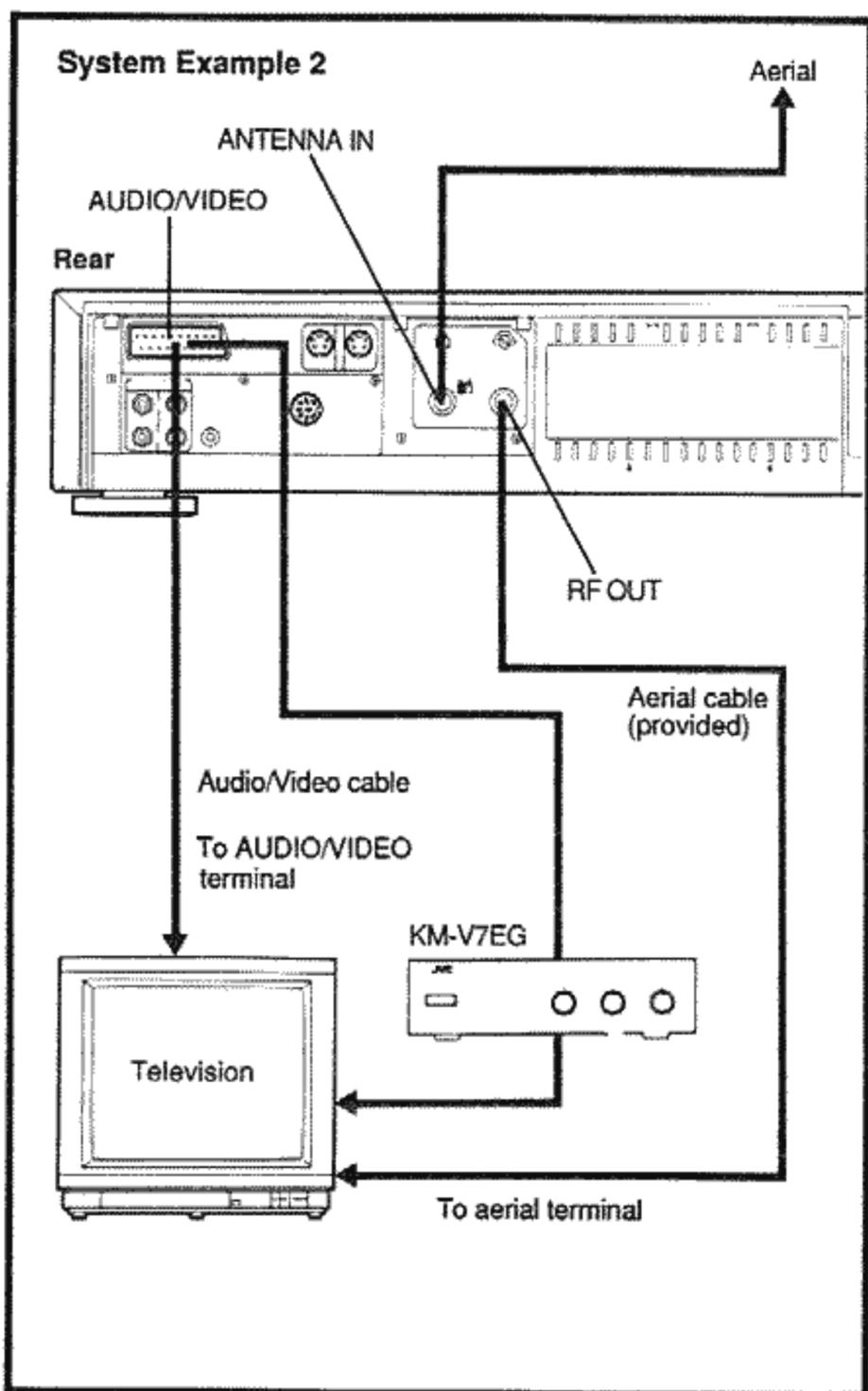
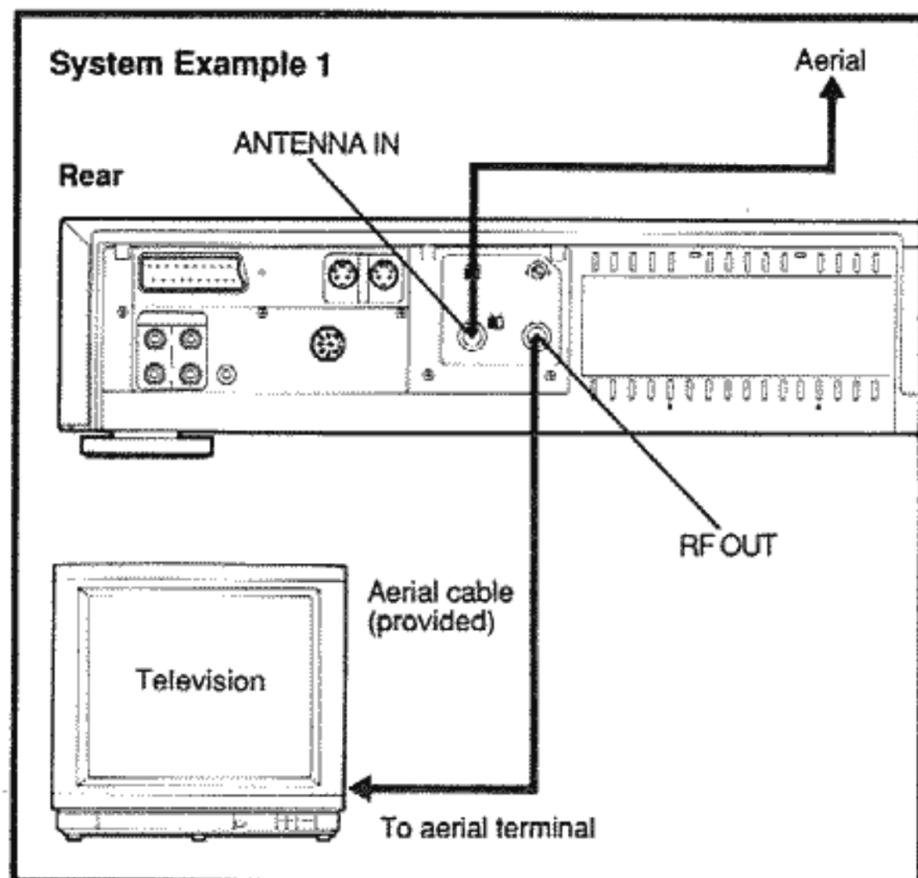
S-VHS button

S-VHS indicator



CONNECTIONS

ENGLISH



AERIAL AND RF CONNECTION

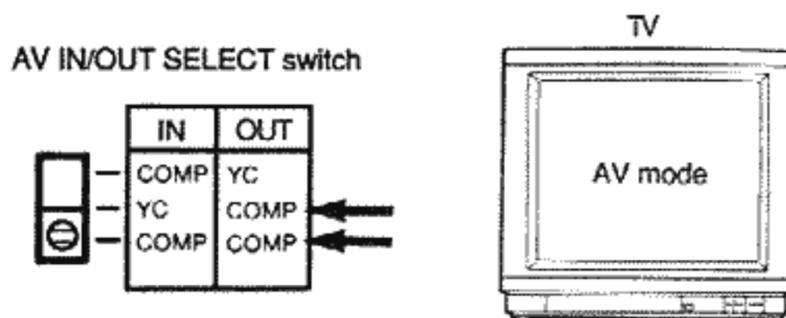
1. Remove the aerial cable from the television and reconnect it to the recorder's ANTENNA IN connector. The recorder is then ready to record off-air programmes.
 2. Connect the recorder's RF OUT connector to the television's aerial terminal using the provided aerial cable. The television is then ready to receive broadcast programmes. When you are not using the recorder, the TV signals are fed to the television via this terminal.
- If your television is equipped with the aerial terminal only, you view tape programmes also via this terminal. In this case, set the television to UHF channel 36 (or a UHF channel adjusted as the video channel). See "VIDEO CHANNEL SETTING" on page 12.
 - When a video tape is played back through the RF OUT connector, the audio is reproduced always as monaural; with hi-fi stereo tapes, both channels are mixed.

SCART CONNECTION

- If your television is equipped with a 21-pin SCART connector, connect the recorder's AUDIO/VIDEO socket to the television's SCART connector.
- The AUDIO/VIDEO socket of this recorder delivers a separate Y/C signal (which consists of luminance (Y) and chrominance (C) signals), or a composite video signal (regular video signal in which luminance and chrominance signals are mixed), depending on the setting of the AV IN/OUT SELECT switch **15**. (When the AUDIO/VIDEO socket is used to connect to a television, the AV IN/OUT SELECT switch functions as an AV OUT SELECT switch.) Check the type of your television's SCART connector — whether it's regular AV (composite video), RGB-compatible, or Y/C-compatible, and set the switch **15** as required.
- The AUDIO/VIDEO socket of this recorder also delivers stereo audio signals. If your television is a stereo television, it is possible to play stereo tapes through the television's speakers.

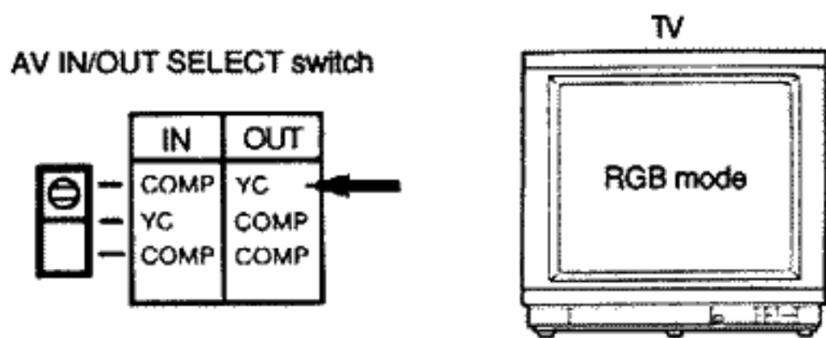
(a) With AV televisions

Since their SCART connector accepts only the composite video signal, set the AV IN/OUT SELECT switch **15** to "COMP" (either the middle or lower position). And set the television to the AV mode.



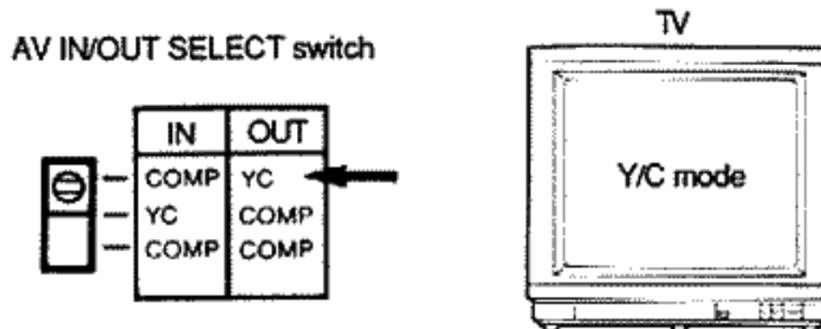
(b) With RGB-compatible televisions

By connecting the optional KM-V7EG RGB signal converter between the recorder's AUDIO/VIDEO socket and the television's SCART connector, the separate Y/C signal is converted into an RGB signal for reproduction of high-quality S-VHS signals. With this connection, set the AV IN/OUT SELECT switch ⑤ to "Y/C" (the upper position) and set the television to the RGB mode.



(c) With Y/C-compatible televisions

Simply connect the recorder's AUDIO/VIDEO socket to the television's SCART connector. To reproduce high-quality S-VHS pictures, set the AV IN/OUT SELECT switch ⑤ to "Y/C" and set the television to the Y/C mode.



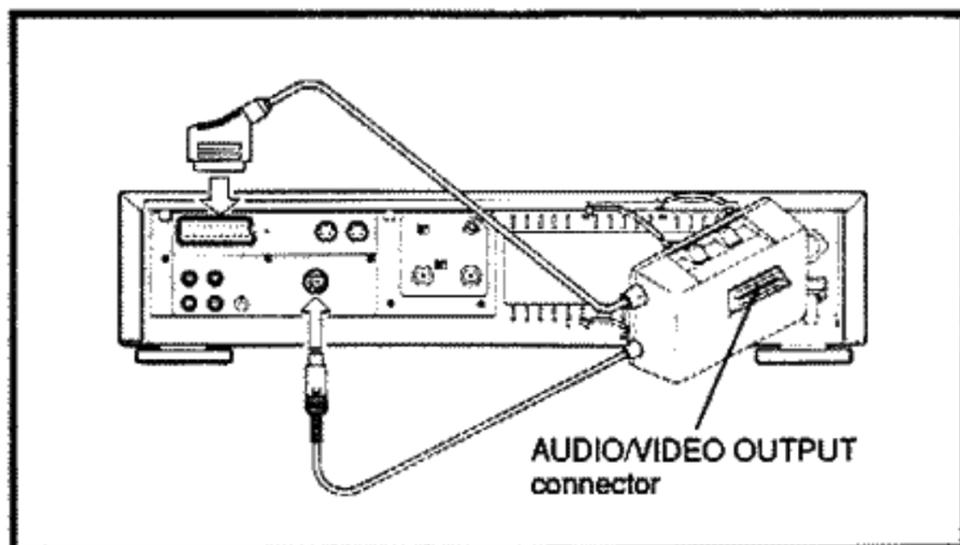
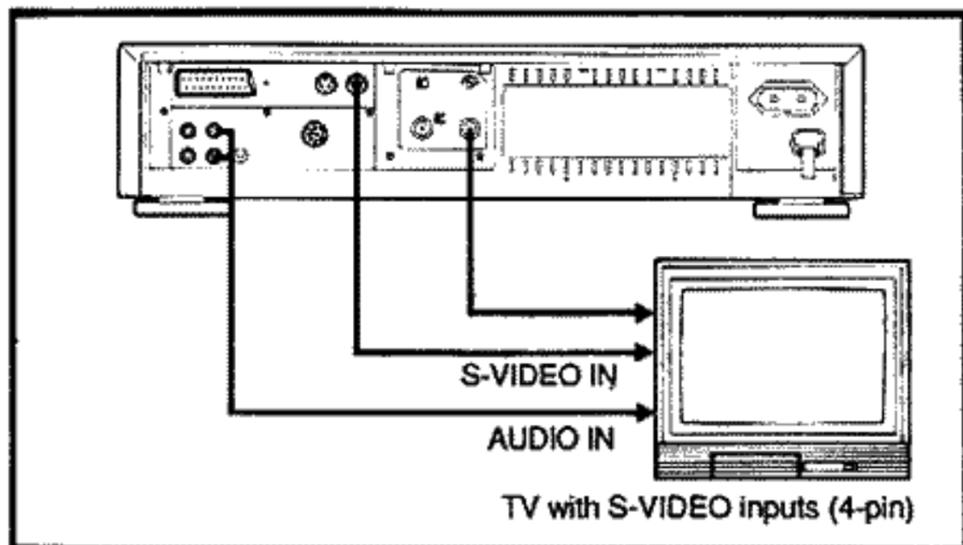
Note:

For switching the television's input mode, refer to the instruction manual of your television.

4-PIN S CONNECTION

- If your television is equipped with a 4-pin S-VIDEO IN connector, connect the S OUT connector ④ of the recorder to the S-VIDEO IN connector of the television using the provided S-Video cable, and connect the AUDIO OUT connectors of the recorder to the AUDIO IN connectors of the television.

If the optional VPT (VPV) adapter is connected to the AUDIO/VIDEO socket, the adapter's SCART connector functions as the AUDIO/VIDEO socket (output only) for connection to a television. Set the AV IN/OUT SELECT switch ⑤ according to the type of television in the same way as when not using the adapter.

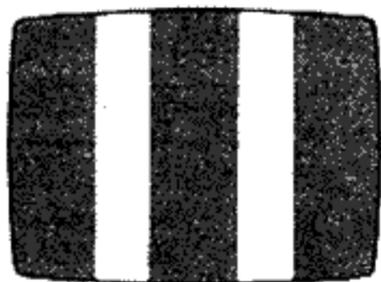


Note:

Do not connect the KM-V7EG RGB adapter to the VPT (VPV) adapter's SCART connector.

VIDEO CHANNEL SETTING

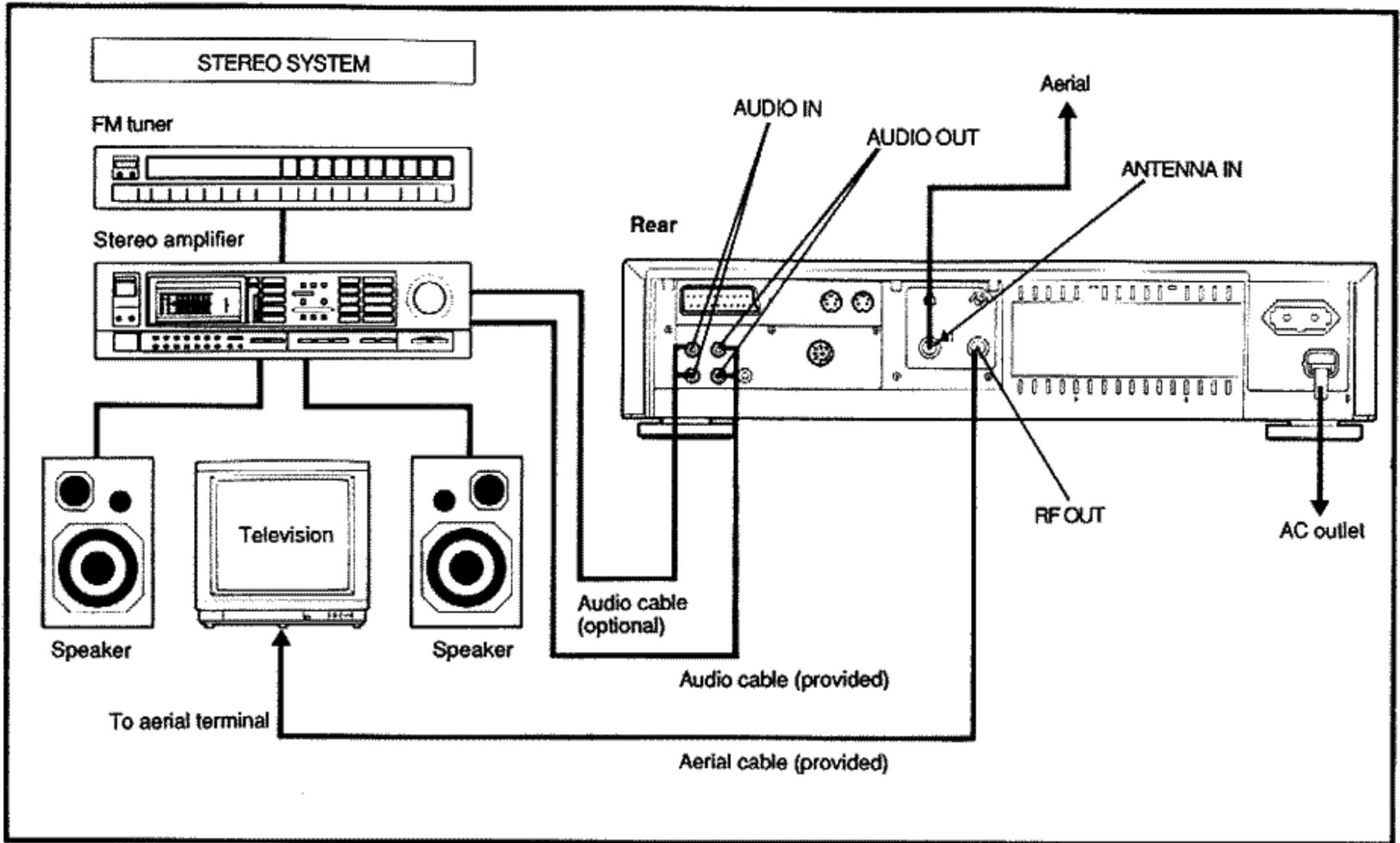
- 1 Press the OPERATE button ① to turn the power on. Turn on the TV receiver.
- 2 Set the TEST switch ③ to ON.
- 3 Adjust your TV receiver in the vicinity of UHF channel 36 until you bring in the two white signal bars on the screen as illustrated. This is your VIDEO CHANNEL.
- 4 Reset the TEST switch to OFF.



Notes:

- If some interference noise is seen on the screen because of broadcasts on neighbouring channels or if your preset broadcasts should be affected in picture quality, it is necessary to shift the RF converter output frequency from that of channel 36. Consult your JVC dealer for making this adjustment.
- Video channel setting is also possible using a prerecorded VHS video cassette. Play back the tape and tune the TV receiver to obtain clear pictures and sound while monitoring the playback picture on the TV screen.
- If your TV receiver is not provided with an AFC circuit, perform fine tuning of the TV receiver when you are actually viewing video cassettes.

TO A STEREO SYSTEM

**Procedure**

1. Connect the AUDIO IN L and R connectors of the recorder to the recording output terminals of the amplifier. (Exactly as one hooks up an audio cassette deck).
2. Connect the AUDIO OUT L and R connectors of the recorder to the AUX IN or TAPE MONITOR terminals of the amplifier.

CAUTION:

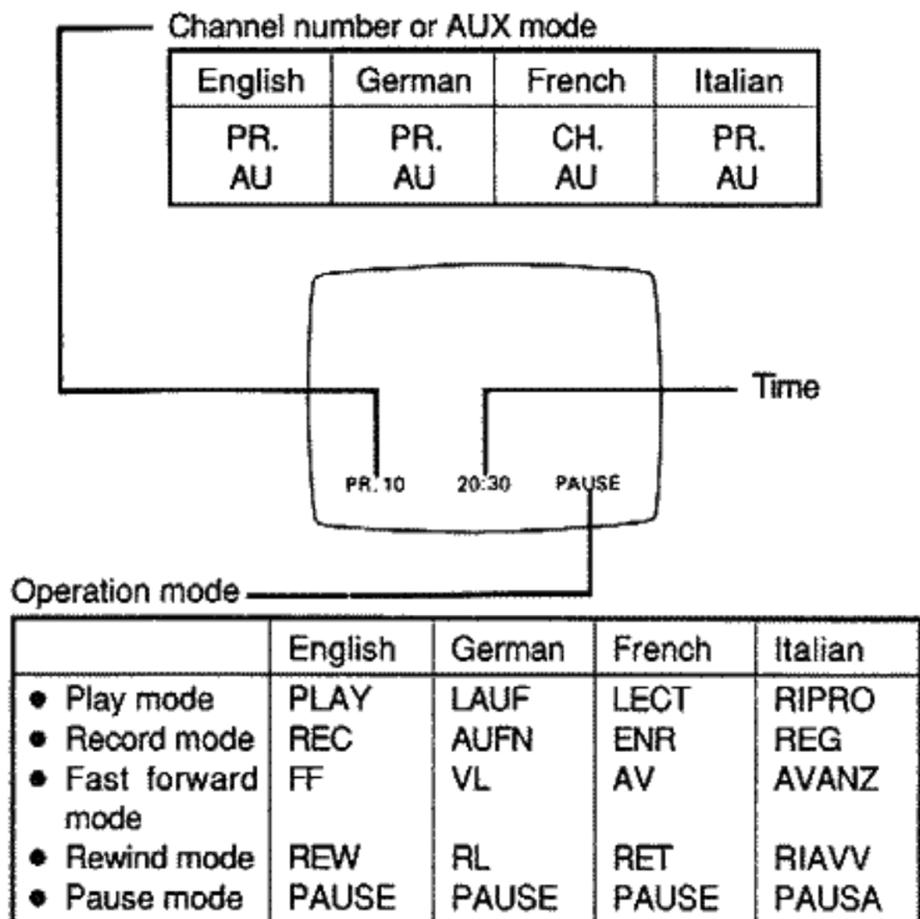
- This recorder has a dynamic range of more than 90 dB with regards to its hi-fi audio capability. It is recommended that you check the maximum level if you are going to listen to the hi-fi audio signals through a stereo amplifier. A sudden surge in speaker input may cause speaker damage.
- Some speakers and televisions are specially shielded to prevent television interference. If both are of the non-shielded type, do not place the speakers adjacent to the TV set, otherwise the video playback picture will not be normal because of mutual interference.

Notes:

- Observe L and R when connecting the audio input and output connectors of the recorder to a stereo amplifier.
- If stereo or bilingual TV broadcasts are receivable in your area, this recorder can record them independently of the TV set and play them back through the connected audio system.
- When listening to sound from the connected stereo system, turn down completely the sound volume of the TV receiver.
- Listening to stereophonic sound is also possible using stereo headphones connected to the front panel PHONES jack ①.
- With this setup, you can enjoy prerecorded Hi-Fi VHS video tapes in hi-fi stereo while viewing them on a regular TV receiver, and also you can record FM simulcast television programmes with hi-fi audio accompaniment. See page 28.
- If you want to timer-control the recording of FM simulcast programmes, connect the tuner's power cord to the recorder's AC outlet. Set the AC ONLINE switch ② to ON, and both the tuner and the recorder will be switched on at a time preprogrammed by the recorder. Timer-controlled recording of FM simulcast programmes is not possible with the type of tuners which reset the channel each time the power is switched off.

ON-SCREEN MODE DISPLAY

Four-language on-screen display is available for timer programming (see page 31) and mode check. To select the language, press the remote control's OSD button for longer than 2 seconds while a mode check display is on the screen. The screen will display "ENGLISH", "DEUTSCH", "FRANCAIS" and "ITALIANO" in that order where the operation mode is otherwise displayed. Simply release the OSD button at the language you want.



Automatic indication

- Channel number is displayed each time a different channel (or AUX mode) is selected.
- Time is displayed whenever the channel or operation mode is displayed.
- Mode is displayed for 5 seconds each time the operation mode is changed to Record, Play, Fast Forward or Rewind from any other mode. The PAUSE indication remains on for as long as the Record-Pause mode is engaged.

Manual recall

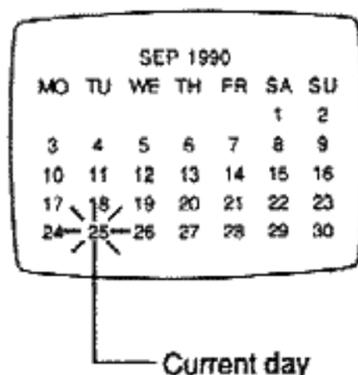
- For checking of the channel, time, or mode, press the OSD button. The corresponding indication will be available on the screen for 5 seconds.

On-screen calendar display

- 1 Press DISPLAY button (20) on the remote control to obtain the DATE indication on the FDP.
- 2 Press OSD button (12).
 - The on-screen display will change to the Calendar mode and the current day indication will blink.
- 3 To call up another month, first press the CH/SET·SELECT button and turn the SHUTTLE ring clockwise; the month indication starts blinking. Then select the desired month by turning the JOG dial.
- 4 To call up another year, use the JOG/SHUTTLE controls in the same way as for step 3.
 - Year indication is available from 1990 to 2089.

Notes:

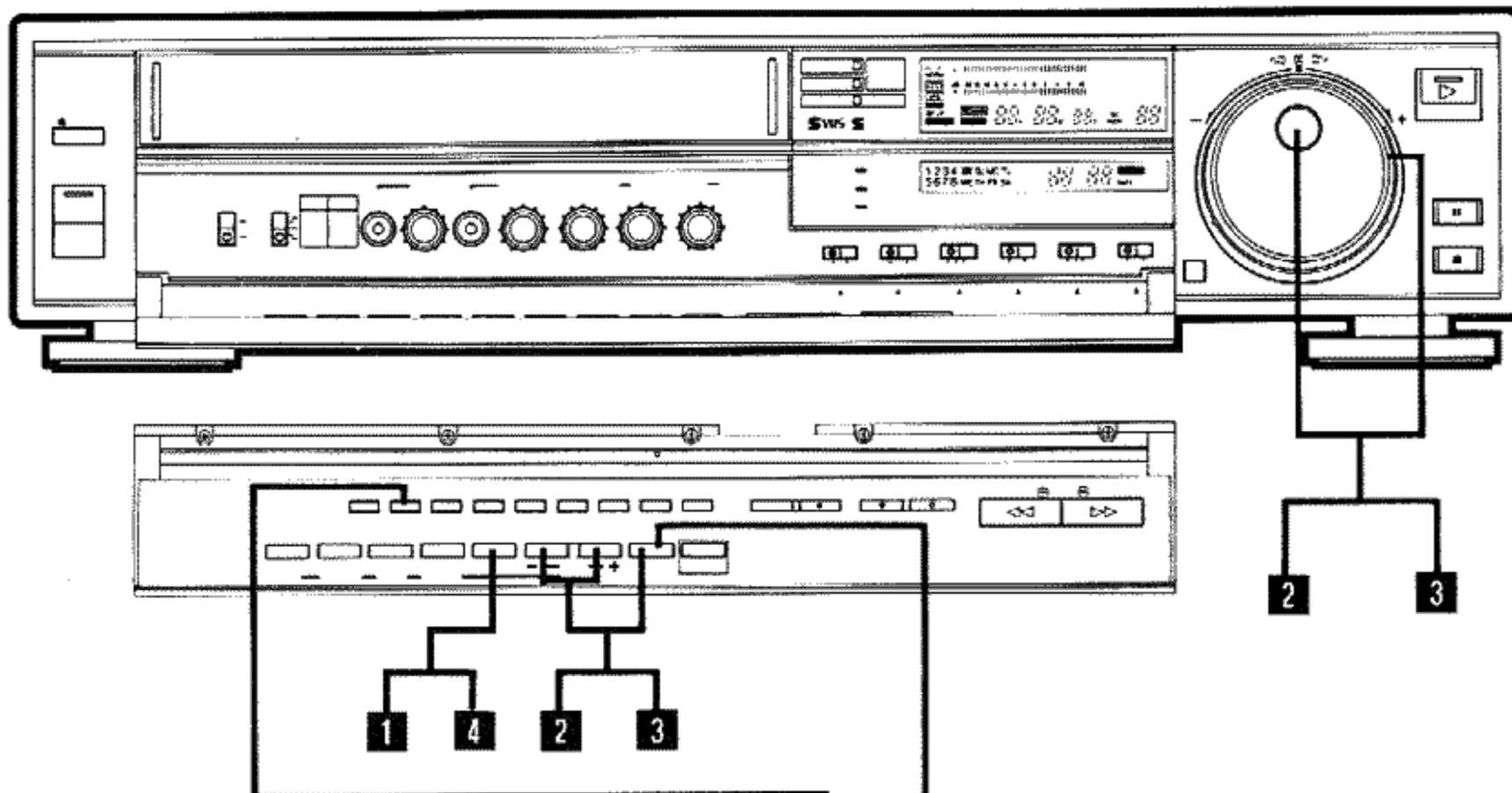
- Four-language on-screen display is also available for the Calendar mode. However, it is not possible to change the language after the Calendar mode has been engaged. Press the OSD button while one of the mode check displays is on the screen as described above.
- To disengage the Calendar mode, press the OSD button again.
- The Calendar mode cannot be engaged while in the Record mode or Index Search mode.
- While in the Calendar mode, channel selection can be made only with the numeric keys.



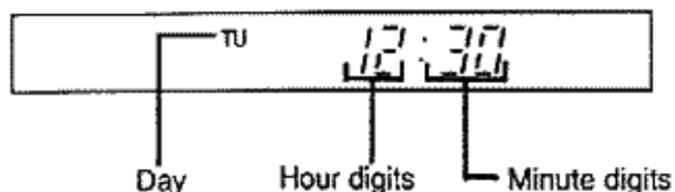
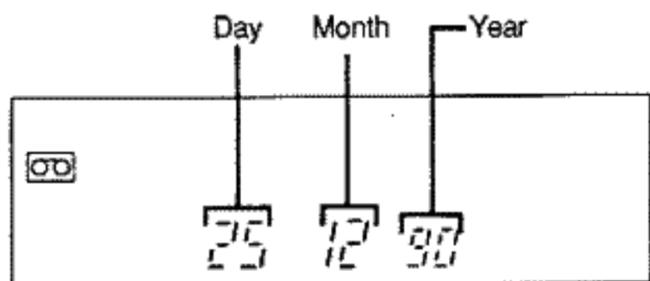
CLOCK SETTING

Setting the built-in clock

Plug the recorder into an AC outlet. The display shows a blinking 0:00.



- 1 Press the C. ADJ. button until the display shows the Clock Set mode with the hour indication blinking.
- 2 Set the hour and minute in that order by using the JOG/SHUTTLE controls, or the SELECT and SET buttons alternately.
 - The blinking position is ready for entry.
 - Turn JOG or press SET until the correct indication appears in each position.
- 3 Set the day, month and year in the same way.
 - In year setting, set only the last two digits of the year.
- 4 Press the C. ADJ. button.
 - Press it at the exact instant of the time signal, and the clock will be set accurately to the present time.
 - The day-of-the-week indication will be displayed automatically.



SUMMER TIME ADJUST

This convenient feature is for quickly making the annual clock adjustment to the "summer time" (daylight saving time) setting, and back to regular time later.

1. Simply press and quickly release the SUMMER TIME ADJ. button in the Clock Set mode to set the clock forward by one hour.
2. Later in the year, to switch back to regular time, simply hold the SUMMER TIME ADJ. button pressed for 2 seconds to set the clock back by an hour.

DISPLAY OFF

Press the DISPLAY OFF button to make indications on the front panel disappear when they are not required; the FDP will show "- : -". Press again to make the clock display reappear.

Power failure indicator

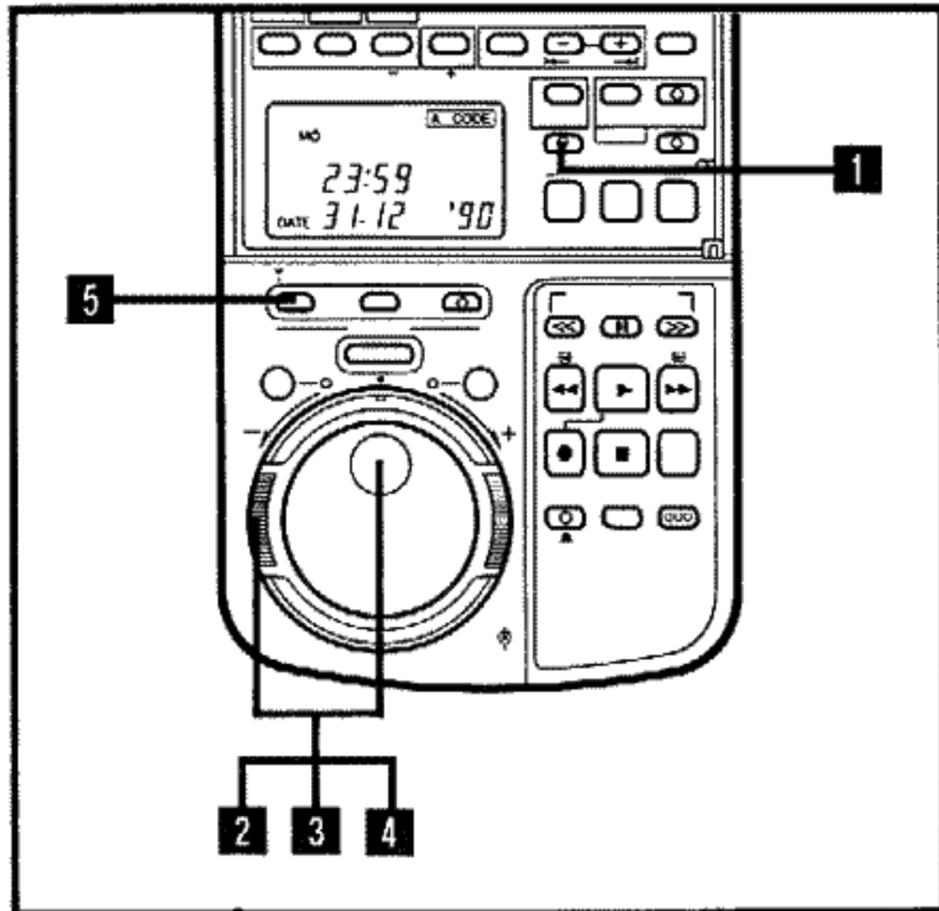
The blinking 0:00 (initial condition of the display) is also a power failure indicator, showing that there has been a power failure exceeding about 60 minutes. Readjusting the time restores the normal condition of the clock display.

Notes:

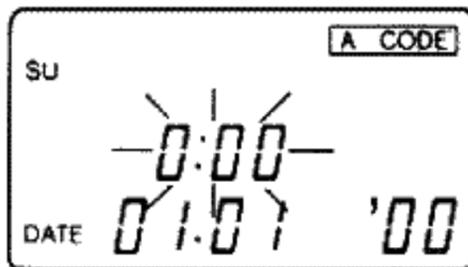
- Clock setting is not possible in the timer recording standby mode. First check to see that the TIMER indicator on the FDP is not lit.
- Enter the data within 10 seconds after pressing the C. ADJ. button.

Setting the LCD clock of the remote control unit

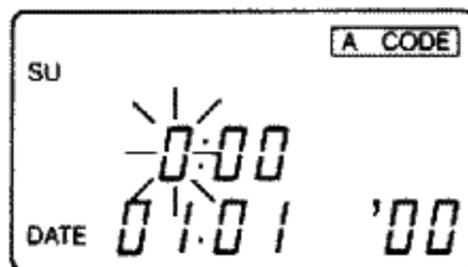
The LCD clock is independent of the recorder's clock. The recorder's clock can be adjusted from the remote control unit if its transfer function is used.



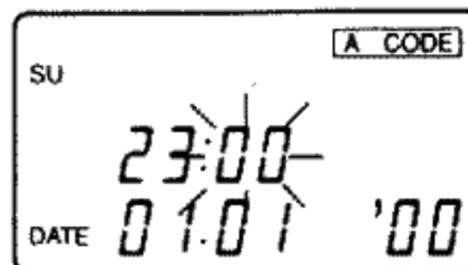
Insert four "R6"-size batteries (provided) into the remote control. The LCD shows the following with "0:00" blinking.



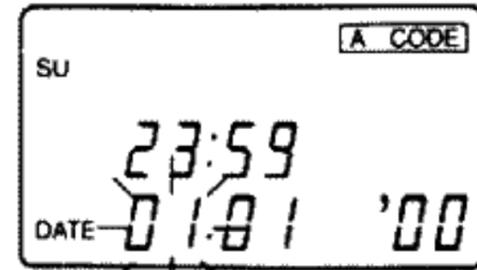
- 1 Press the CLOCK ADJ. button.
 - The hour indication will blink.



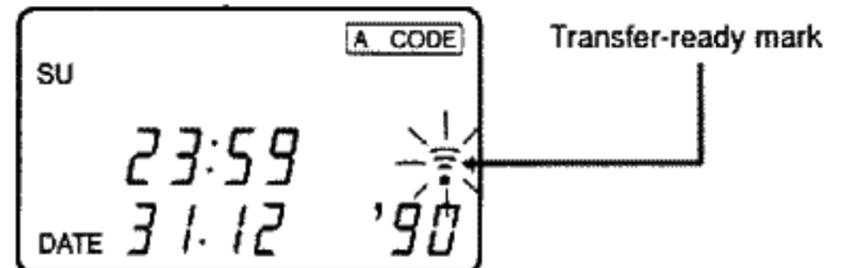
- 2 Turn the JOG dial to set the current hour, then turn the SHUTTLE ring clockwise.
 - The minute indication will blink.



- 3 Turn the JOG dial to set the current minute, then turn the SHUTTLE ring clockwise.
 - The day indication will blink.



- 4 Set the day, month and year in succession in the same way.
 - In year setting, set only the last two digits of the year.
 - After setting the year and turning the SHUTTLE ring clockwise, the transfer-ready mark will appear and blink.



- 5 Press the TRANS button at the exact instant of the time signal.
 - The day-of-the-week indication will be displayed automatically.
 - The clock of the remote control will be set accurately to the second and, at the same time the set data will be transferred to the clock of the recorder.
 - When it is not necessary to transfer the clock data to the recorder, press the CLOCK ADJ. button instead of the TRANS button to set the remote control's clock.
 - If the transfer-ready mark disappears before transmission, press the CLOCK ADJ. button to make it reappear, then press the TRANS button while the transfer-ready mark is blinking; otherwise, the TRANS button will function as a summer time adjust button.
 - If the clock has already been set, the transfer-ready mark starts blinking when the CLOCK ADJ. button is pressed.
 - To transfer the data to the recorder's clock, simply press the TRANS button.
 - To readjust the clock, press the CLOCK ADJ. button and then turn the SHUTTLE ring either direction so that the position which requires correction blinks.

SUMMER TIME ADJUST

For quickly making the annual clock adjustment to the "summer time" (daylight saving time) setting, and back to regular time later, use the SUMMER TIME ADJ button (38).

1. Simply press and quickly release the SUMMER TIME ADJ button in the Clock mode to set the clock forward by one hour.
2. Later in the year, to switch back to regular time, simply hold the SUMMER TIME ADJ button pressed for more than 2 seconds to set the clock back by an hour.

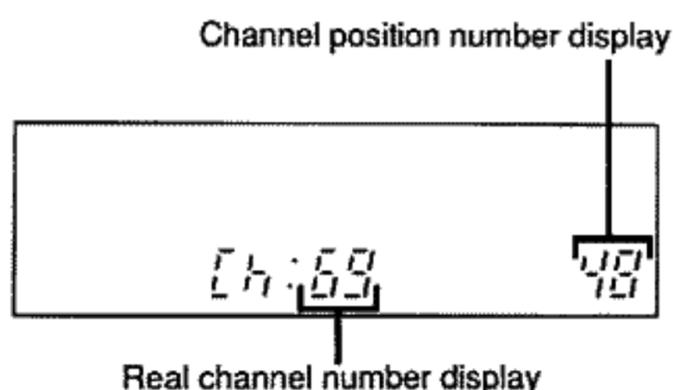
Note:

- For summer time adjustment, make sure that the transfer-ready mark is not on the LCD.

OPERATING THE BUILT-IN TUNER

ENGLISH

This recorder incorporates an advanced frequency synthesized tuner which is pretuned to 112 channels to cover VHF, UHF and CATV broadcasts. Channel indication is given in two different ways: real channel numbers and channel position numbers. Real channel number indication is available by pressing the CHANNEL SET button (1) or VPS/CH button (13), or during search by pressing the SEARCH button (15), while channel position number indication is always available in the channel display.



Correspondence between 112 pretuned TV stations and the recorder's real channel indications

| DISPLAY | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|
| Ch | — | E2 | E3 | E4 | E5 | E6 | E7 | E8 | E9 | E10 | E11 (H1) | E12 (H2) | A | B | C | D | E | F | G | H |
| CC | S1 | S2 | S3 | S4 | S5 | S6 | S7 | S8 | S9 | S10 | S11 | S12 | S13 | S14 | S15 | S16 | S17 | S18 | S19 | S20 |
| | M1 | M2 | M3 | M4 | M5 | M6 | M7 | M8 | M9 | M10 | U1 | U2 | U3 | U4 | U5 | U6 | U7 | U8 | U9 | U10 |
| | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 |
| DISPLAY | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| Ch | E21 | E22 | E23 | E24 | E25 | E26 | E27 | E28 | E29 | E30 | E31 | E32 | E33 | E34 | E35 | E36 | E37 | E38 | E39 | E40 |
| CC | S21 | S22 | S23 | S24 | S25 | S26 | S27 | S28 | S29 | S30 | S31 | S32 | S33 | S34 | S35 | S36 | S37 | S38 | S39 | S40 |
| DISPLAY | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| Ch | E41 | E42 | E43 | E44 | E45 | E46 | E47 | E48 | E49 | E50 | E51 | E52 | E53 | E54 | E55 | E56 | E57 | E58 | E59 | E60 |
| CC | S41 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| DISPLAY | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | | | | | | | | | | | |
| Ch | E61 | E62 | E63 | E64 | E65 | E66 | E67 | E68 | E69 | | | | | | | | | | | |
| CC | — | — | — | — | — | — | — | — | — | | | | | | | | | | | |
| | | | | | | | | | | | X | Y | Z | — | — | | | | | |

Stored channels

A total of 112 channels are receivable. Of them, up to 48 can be stored for easy channel selection. Prior to shipment, some channels are stored.

It is possible to store more channels or skip some channels if there are no broadcasts on those channels in your area. It is possible to change the stored channels to correspond to your preferred channel allocation. Skipped channels can be restored whenever necessary.

- Channel memories are permanent; the programmed channel allocation will not be erased even if the recorder is unplugged from the AC outlet.

Channel selection

To select a channel for recording, normally use the JOG dial (8) (13) (first, press the CH/SET-SELECT button when you use the remote control) or 10 numeric keys (5). You can choose any channel from among the stored ones by calling up the corresponding channel position number.

- Turn the JOG dial counterclockwise to scan to a channel in the direction of decreasing numbers; clockwise in the direction of increasing numbers.
- An invalid number larger than 48 will be rejected.

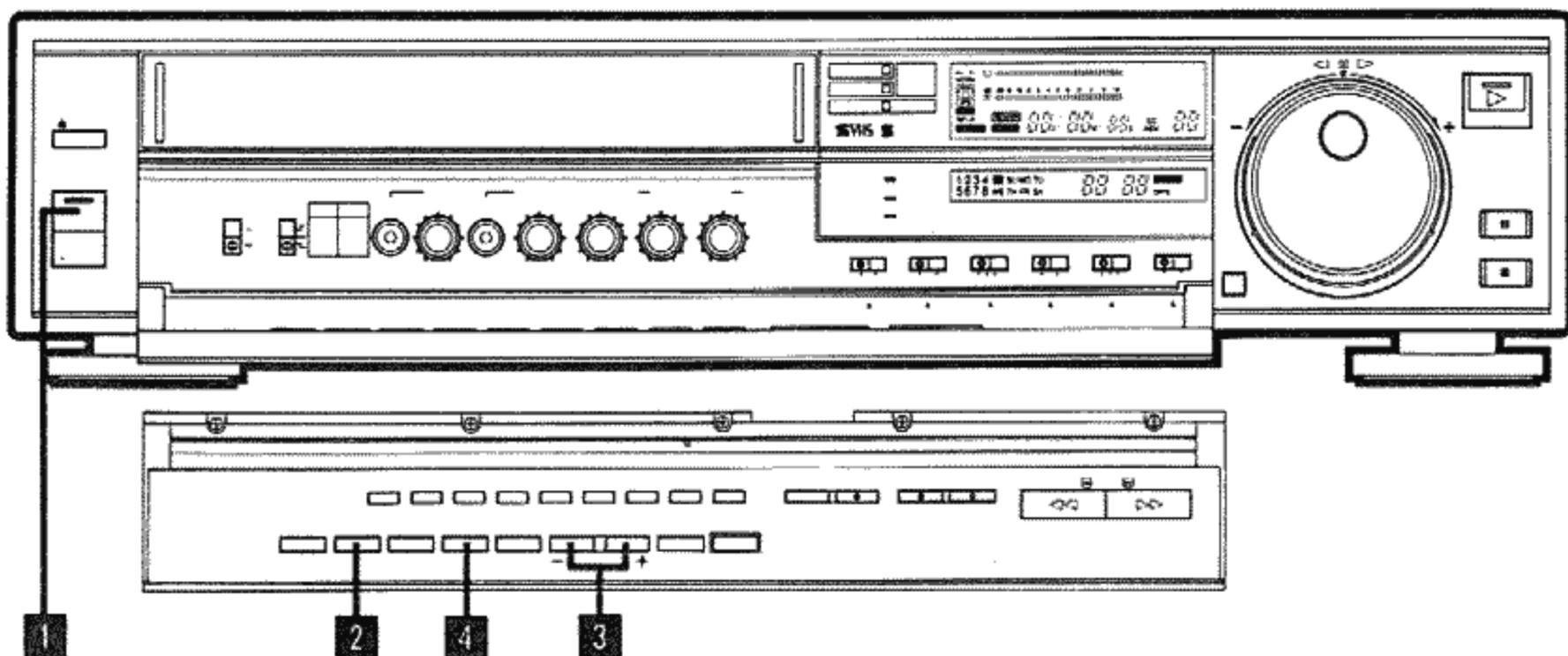
If you want to select a channel other than those stored, engage the Real Channel mode and call up a channel, while referring to the real channel number display.

With recorder's controls:

- Simply press the SEARCH button (15).

With remote control:

- Press the VPS/CH button (13) to engage the Real Channel mode and call up a channel by using the 10 numeric keys. For details, refer to the next page.



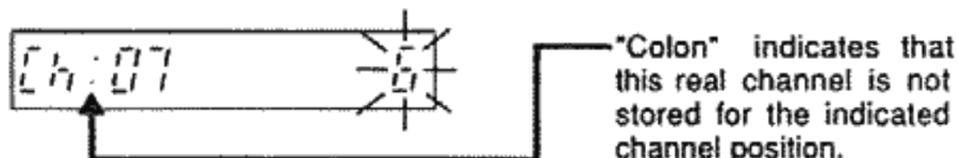
Storing channels



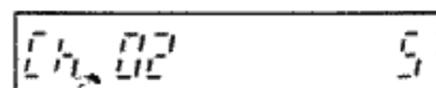
Turn the TV receiver to ON.
 • Adjust it to your video channel or to the AV mode (depending on the connection).

A. Automatic Setting

- 1 Turn the power on.
 - The display will change from the Date mode to the Counter mode.
- 2 Press the SEARCH button.
 - The display will change to the Real Channel mode and automatic scanning will take place for "Ch" channels, then for "CC" channels.



- Reverse search will be engaged if the SEARCH button is kept depressed.
 - When a broadcast is detected, scanning stops automatically and the displayed channel position number will blink.
- 3 Select a channel position into which you wish to store that station by using the CHANNEL buttons while the channel position number is blinking.
 - 4 After confirming the real channel number and channel position number, press the STORE button.
 - The Channel position number stops blinking.
 - "Colon" will disappear and the selected station has been stored.



VHF channel 2 is stored for channel position 5.



Cable channel 75 is stored for channel position 6.

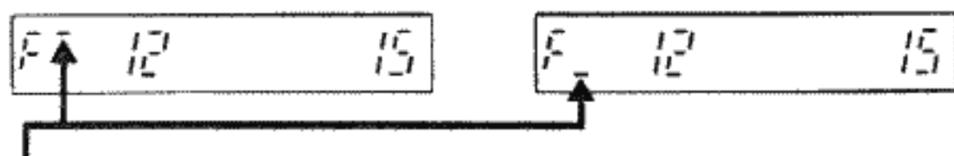
- 5 To continue automatic setting, repeat steps 2 through 4.

B. Manual Setting from remote control unit

- 1 Press the VPS/CH button.
 - The display will change to the Real Channel mode.
- 2 Press VPS/CH until the real channel number starts blinking.
 - Pressing the VPS/CH button will alternate the Real Channel mode between Ch and CC.
 - Blinking will stop in 10 seconds.
- 3 Enter the number of a real channel to be preset.
 - The channel position number will start blinking.
- 4 Select a channel position into which the selected real channel is to be stored, using the 10-digit keypad.
 - Depress the numeric key for the second digit continuously until blinking stops. This enables the entered number to be stored.
 - The display will return to the clock mode by simply keying in the channel number to be viewed.

Fine Tuning

For fine tuning, press the SELECT button in step 3 (both in automatic and manual setting) and use the FINE "+" or "-" button; "+" to fine-tune in the direction of increasing frequencies, and "-" to fine-tune in the direction of decreasing frequencies.



Upper or lower "-" sign indicates the operating tuning frequency is above or below the standard broadcast frequency. Center "-" sign will appear when it corresponds to the standard.

Skipping the stored channels

- 1 Call up the channel position number that you wish to skip by using the JOG dial or 10 numeric keys.
- 2 Press the CHANNEL SET button.
- 3 Press the SKIP button.
 - "Colon" will appear to indicate that the displayed real channel is not stored.
 - The skipped channel number will not appear on the channel display during up/down scan tuning.
 - To restore the skipped channel, press the STORE button after step 3.

Note:

If no command is given after each step of the setting operation, the Real Channel mode will be automatically cancelled in 10 seconds.

INFORMATION ON THE AUDIO SYSTEM

ENGLISH

Hi-Fi and normal audio

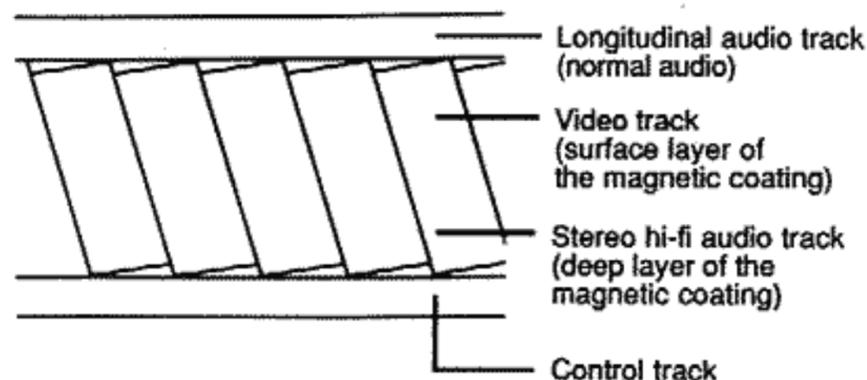
This recorder has two audio systems: Hi-Fi audio and normal audio. Hi-fi audio signals (2-channel) are recorded deep into the tape's magnetic coating of the video track section, while normal audio signals are recorded on the usual longitudinal track.

CAUTION:

- The hi-fi soundtrack recorded with this recorder cannot be reproduced with video equipment other than Hi-Fi VHS.
- The normal soundtrack is compatible with any VHS equipment.

Tape pattern recorded with this recorder

The Hi-Fi and normal soundtracks are recorded simultaneously.



Recording options according to the selected input mode

| Input mode | Track | Video track | Normal audio track (mono) | Hi-fi audio track (2-channel) |
|---|-------|----------------------------------|---|--------------------------------|
| TUNER  (button pressed to OFF) | | TV picture (from built-in tuner) | TV sound (from built-in tuner) | TV sound (from built-in tuner) |
| SIMUL  (button pressed to ON) | | TV picture (from built-in tuner) | TV sound (from built-in tuner) | Audio signal from AUDIO IN |
| AUX  Channel display section | | Video signal from AUDIO/VIDEO | Audio signal from AUDIO/VIDEO (Mixing with microphone input is possible.) | |

Notes:

- To engage the AUX mode, turn the JOG dial (first, press the CH/SET-SELECT button when you use the remote control).
- Microphone input will be mixed with the audio signals on the hi-fi audio track only when the AUX mode is selected.
- You can record audio only (without recording any video signal) in either the SP or LP mode. In the LP mode you can enjoy up to 8 hours of hi-fi stereo recording with a single cassette (E-240).

Recording options according to the type of broadcasts and the setting of the TV SOUND switch

| Type of broadcast | TV SOUND switch position | Audio Track | Hi-fi audio track (2-channel) | |
|--------------------------|--------------------------|-----------------------------------|----------------------------------|-----------------------------------|
| | | | Normal audio track (mono) | L |
| Regular (monaural audio) | Either position | Mono | Mono | |
| Stereo broadcast | Either position | L + R mixed | Stereo | |
| Bilingual broadcast | MAIN | Main soundtrack (local language) | Main soundtrack (local language) | Sub soundtrack (foreign language) |
| | SUB | Sub soundtrack (foreign language) | | |

Hi-Fi audio recording level adjustment

While recording onto the normal audio track is controlled by the built-in Automatic Level Control circuit, hi-fi audio recording has two control options: manual and automatic.

Hi-Fi AUDIO REC LEVEL BALANCE control knob

Turn this control knob to adjust the balance between L and R channels relative to each other, while adjusting the Hi-Fi audio recording level; counterclockwise to boost the Hi-Fi audio left-channel recording level, clockwise to boost the right-channel.

Hi-Fi AUDIO REC LEVEL control knob

Turn this control knob, clockwise to increase the recording level and counterclockwise to decrease the recording level, for manual adjustment of the Hi-Fi audio recording level.

ALC switch

Setting this switch to ON activates the built-in audio limiter circuit for both channels so that the recording level is automatically controlled. For manual adjustment, set this switch to OFF. (The recording level for normal audio is always controlled automatically regardless of the setting of this switch.)

Audio level indicators

For manual control of the recording level, first set the relevant switch and button as follows:

ALC  → OFF

LEVEL IND.  → ON

AUDIO MONITOR  → Hi-Fi L and R (Hi-Fi Stereo)

Then turn the Hi-Fi AUDIO REC LEVEL control knob referring to these indicators. When indicators up to or near 0 dB light for the loudest signal being applied, the recording level is optimum. (The level at which only one red indicator lights from time to time may be most appropriate.)

During playback, these indicators show the level of audio signals recorded on the tape.

Notes:

- With the AUDIO MONITOR and MIX buttons pressed so either Hi-Fi L or R or NORM indicator lights on the FDP, the recording level of hi-fi audio signals cannot be correctly indicated. Select both Hi-Fi L and R indicators when adjusting the recording level.
- The normal audio signal level is also displayed by these indicators, but cannot be adjusted.

Dual-audio playback flexibility

MIX button

Operates in conjunction with the AUDIO MONITOR button to select soundtracks for listening.

- When the power is turned on, both hi-fi channels can be listened to. Press this button once to listen to only the normal soundtrack (the NORM indicator lights).
- Press this button again to listen to a mixture of hi-fi stereo (Hi-Fi L and/or Hi-Fi R), and normal soundtracks, by selecting the combination with the AUDIO MONITOR button.

Notes:

- This button functions during recording as well, although it has no effect on the recorded signal.
- When playing back a tape containing the same soundtrack on both hi-fi and normal audio tracks, a slight time lag is sensed between the two soundtracks, probably with some distortion when listening in the Mix mode.

LEVEL IND. switch and TRACKING buttons

The right-channel audio level indicator also functions as a tracking meter during playback. If noise or breaks are sensed in the reproduced sound from the hi-fi audio track or noise bars are visible on the screen, perform manual tracking adjustment by using the TRACKING buttons (see page 23) while referring to the meter. For this purpose, set this switch to TRACK and press the buttons so that the greatest number of elements of the right-channel indicator light. When this switch is set to OFF, the indicators do not light, regardless of whether during recording or playback.

Note:

When playing back a tape with no recording on the hi-fi audio track, the level indicator does not light when the LEVEL IND. switch is set to TRACK.

AUDIO MONITOR button

Selects the hi-fi audio channel (left, right or both) for listening. Use this button together with the MIX button referring to the four indicators (Hi-Fi, L, R and NORM).

- When the power is turned on, the Hi-Fi L and R indicators light and both hi-fi channels can be listened to. Press this button and only the Hi-Fi L indicator lights to listen to only the left hi-fi channel sound.
- Press this button again and only the Hi-Fi R indicator lights to listen to only the right hi-fi channel sound.

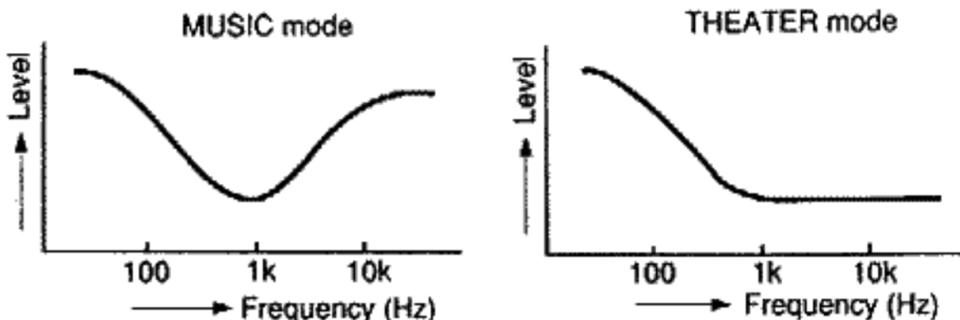
Notes:

- This button functions during recording as well, although it has no effect on the recorded signal.
- With the MIX button pressed for the NORM setting, pressing the AUDIO MONITOR button has no effect.

SOUND MENU SYSTEM

This recorder incorporates a sound processor with four modes — STEREO WIDE MUSIC, STEREO WIDE THEATER, SIMULATED STEREO MUSIC, and SIMULATED STEREO THEATER — selectable via a Sound Menu system. To provide the best possible performance with music programmes, the two MUSIC modes boost both lows and highs, while in the two THEATER modes, only lows are boosted to better reproduce movies soundtracks. In the SIMULATED STEREO modes, monaural soundtracks become simulated stereo, while in the STEREO WIDE modes stereo soundtracks become stereowide. Select the desired mode according to your preference.

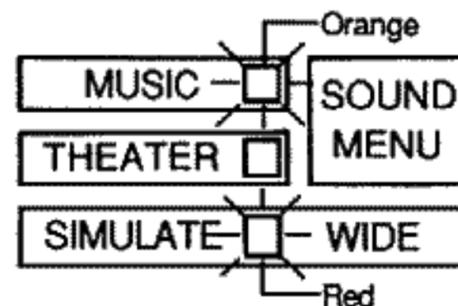
Frequency response



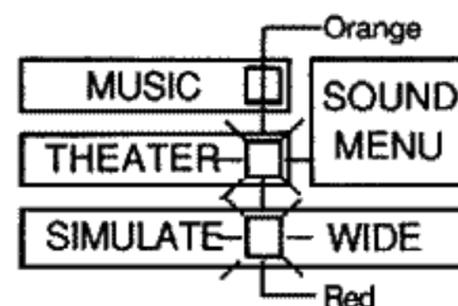
Operation

- Press the SOUND MENU button either on the recorder ⑤ or the remote control unit ⑥ until you get the desired mode.
- The LED indicators on the recorder show the selected mode.

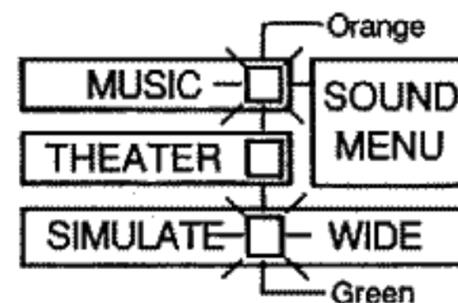
LED INDICATORS



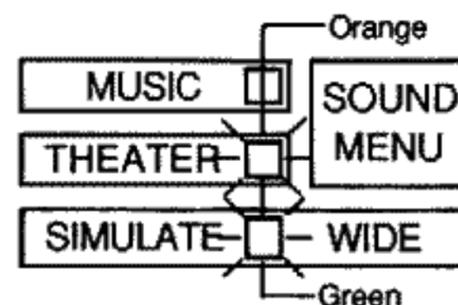
STEREO WIDE MUSIC



STEREO WIDE THEATER



SIMULATED STEREO MUSIC



SIMULATED STEREO THEATER

LOADING AND UNLOADING A CASSETTE

Motorized Loading System

- The cassette can be loaded even when the power has not been turned on. Inserting a cassette into the loading slot turns the power on automatically.
- The cassette can be unloaded even when the power has been turned off. If a cassette is inside, pressing the EJECT button turns the power on automatically and, after ejection of the cassette, shuts it off automatically.

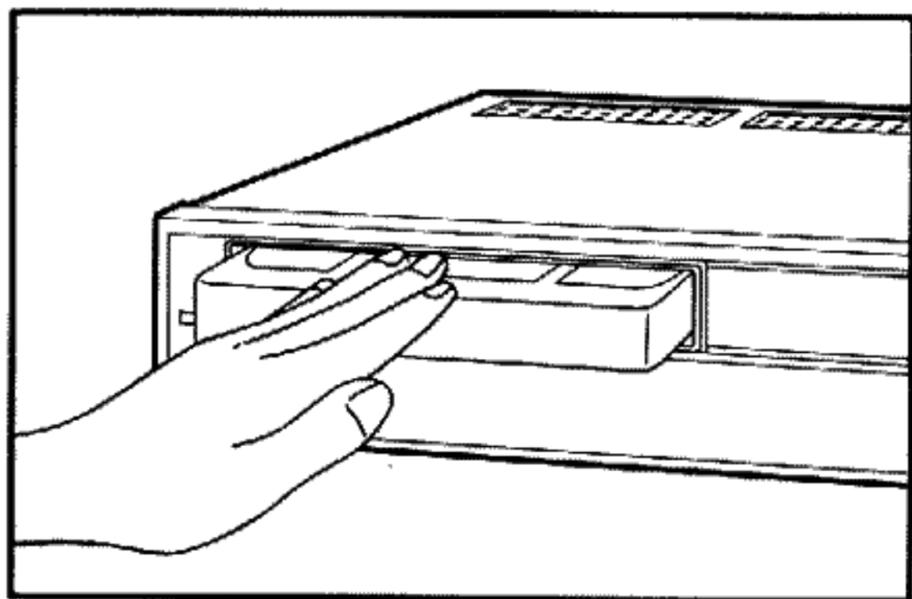
Auto-Play System

- Inserting a cassette, with its safety tab removed, turns the recorder on and playback of the cassette begins automatically.

LOADING

Insert a cassette as illustrated with its labelled side facing you.

- With a cassette inserted, the "CD" indicator appears on the FDP.
- The counter resets automatically when a cassette is inserted.



Notes:

- Be sure to insert the cassette firmly into the slot; otherwise it will be automatically ejected.
- The automatic loading mechanism will operate only when the cassette is inserted correctly.

UNLOADING

Press the EJECT button  in the Stop mode.

Caution

- If unloading of a cassette is not possible, check to see whether the TIMER indicator is lit. If so, press the TIMER button so the TIMER indicator extinguishes.
- Do not attempt to pull out the cassette once automatic loading has started.

WARNING

- Do not insert fingers or any foreign object beyond the door flap of the cassette loading slot, as this could lead to injury or damage to the mechanism. Show special caution with children.

USABLE CASSETTES AND THEIR RECORDING TIME

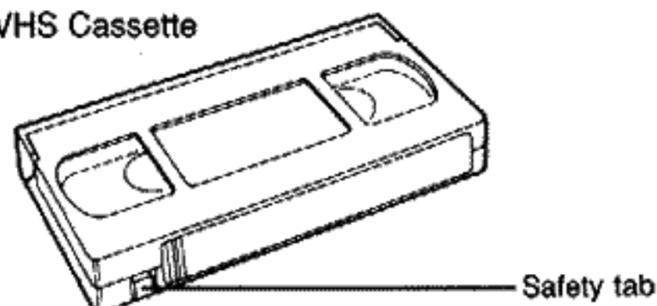
Both regular VHS and S-VHS cassettes can be used with this video recorder for recording. However, S-VHS recordings cannot be made with regular VHS cassettes.

| | Type of Cassette | Recording/Playback Time | |
|-------|------------------|-------------------------|----------------|
| | | SP (Standard Play) | LP (Long Play) |
| VHS | E-30 | 30 minutes | 1 hour |
| | E-60 | 1 hour | 2 hours |
| | E-90 | 1 hour, 30 minutes | 3 hours |
| | E-120 | 2 hours | 4 hours |
| | E-180 | 3 hours | 6 hours |
| | E-240 | 4 hours | 8 hours |
| S-VHS | SE-180 | 3 hours | 6 hours |
| | SE-60 | 1 hour | 2 hours |
| | SE-30 | 30 minutes | 1 hour |

ACCIDENTAL ERASURE PREVENTION

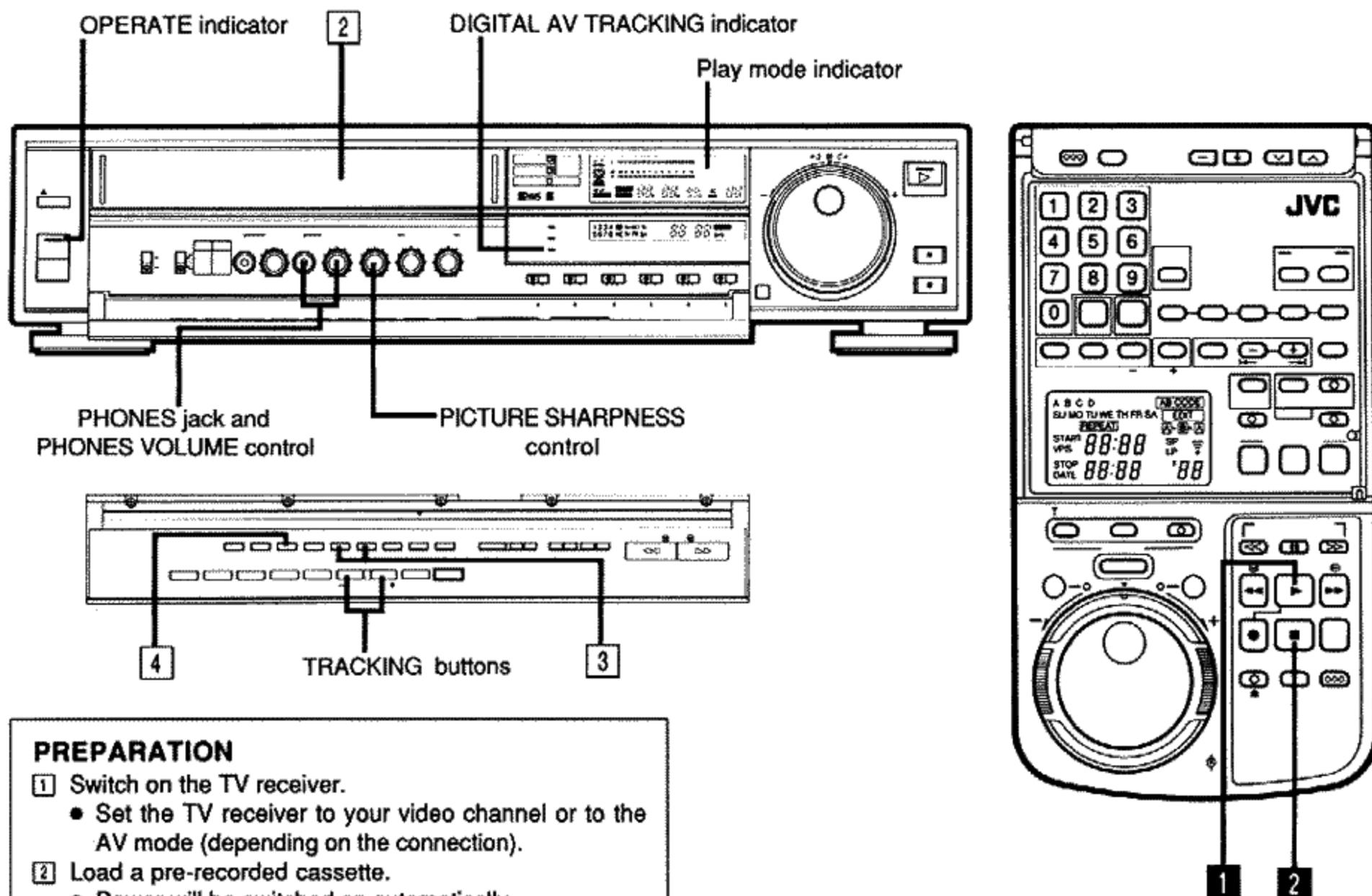
- Video cassettes are equipped with a safety tab to prevent accidental erasure. When the tab is removed, recording cannot be performed. If you wish to record on a cassette whose tab has already been removed, use adhesive tape to block the hole.

VHS Cassette



PLAYING BACK A VIDEO CASSETTE

ENGLISH



PREPARATION

- 1 Switch on the TV receiver.
 - Set the TV receiver to your video channel or to the AV mode (depending on the connection).
- 2 Load a pre-recorded cassette.
 - Power will be switched on automatically.
 - When a cassette with its safety tab removed is loaded, playback starts automatically.
- 3 Make the AUDIO MONITOR and MIX setting as required. (See page 20.)
- 4 Select the desired sound effect with the SOUND MENU button. (See page 21.)

DIGITAL AV TRACKING SYSTEM

This recorder incorporates a digital AV tracking system for automatic tracking adjustment. In most cases you do not have to adjust the tracking.

- When you start playback after inserting a tape, the digital tracking system automatically adjusts the tape path relative to the heads to obtain the best possible pictures and Hi-Fi stereo sound.
- If there is no recorded Hi-Fi audio, tracking is set referring to the video signal. The audio output is automatically switched to normal audio.
- This automatic tracking adjustment also takes place when the playback output level reduces below a certain level.
- The DIGITAL AV TRACKING indicator blinks while the system is searching for optimum tracking, and remains lit as long as the automatic tracking mode continues.

If automatic tracking fails, and some noise bars are visible on the screen, use the manual tracking mode.

- Press both TRACKING (+/-) buttons simultaneously to cancel the automatic mode, then press either button to move noise bars out of the screen.
- To return to the automatic mode, press both buttons simultaneously.

OPERATING PROCEDURE

- 1 Press the ► button.
- 2 Press the ■ button at the end of the programme.

Notes:

- The SP or LP mode recording is automatically detected and played back at the correct speed.
- Irrespective of the S-VHS mode button setting, the S-VHS or VHS recording mode is automatically detected and played back in the correct mode. The S-VHS mode indicator lights for playback of S-VHS recordings.
- For various convenience facilities and special-effects features available during playback, see the next two pages.
- The tape-end auto-rewind mechanism functions in the Play, Fast Forward and Forward Search modes.
- When listening through headphones, if the volume is too low or too high, adjust the PHONES VOLUME control for comfortable listening.

PICTURE SHARPNESS ADJUSTMENT

Images on the screen can be adjusted to a preferred softer or sharper definition by turning the PICTURE SHARPNESS control in the corresponding direction.

CONVENIENT FACILITIES RELATED TO PLAYBACK

ENGLISH

SKIP SEARCH

During playback, press the SKIP/BLANK SEARCH button from 1 to 4 times to skip through 30-sec. to 2-min. sections of tape. Playback resumes automatically. Press the ► button to cancel the Skip Search mode midway.

MEMORY PLAY

If you want to watch the tape from its beginning after rewinding, you do not have to wait for completion of rewind to press the ► button.

- Press the ◀◀ button and then ► button within 2 seconds. Playback will start automatically at the beginning of the tape. (Check to see that the counter memory indicator **M** is off).

If you want to watch the tape from the counter reading of "0H 00M 00s", press the C. MEMORY button to obtain **M**. Then, press the ◀◀ (or ▶▶) button and then ►.

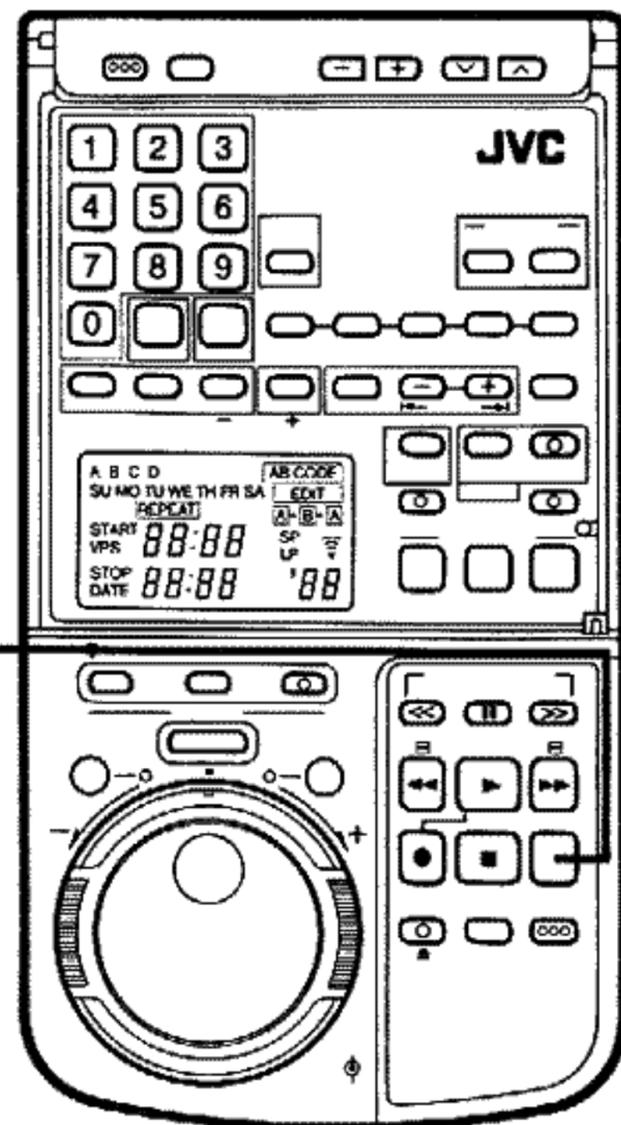
- While the tape is being rewound, the Play (▷) indicator is blinking. To cancel the Memory Play mode and go to another mode, press the corresponding button (■, ▶, ▶▶, ◀◀).

More Next-Function Memory Features

If you are going to eject the cassette, or turn the power off after rewinding the tape, press the EJECT or OPERATE (VIDEO) button within 2 seconds after pressing the ◀◀ button.

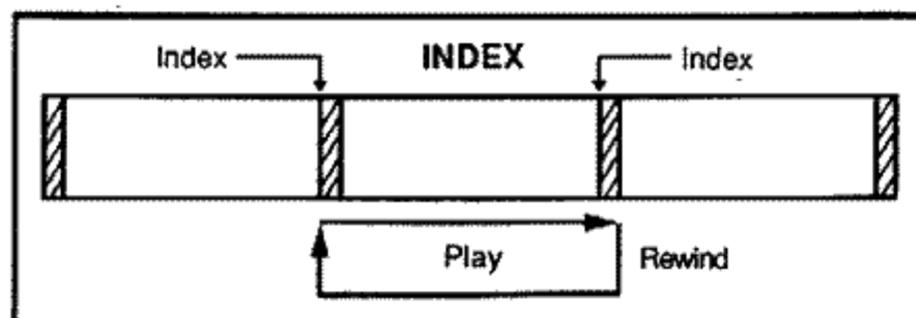
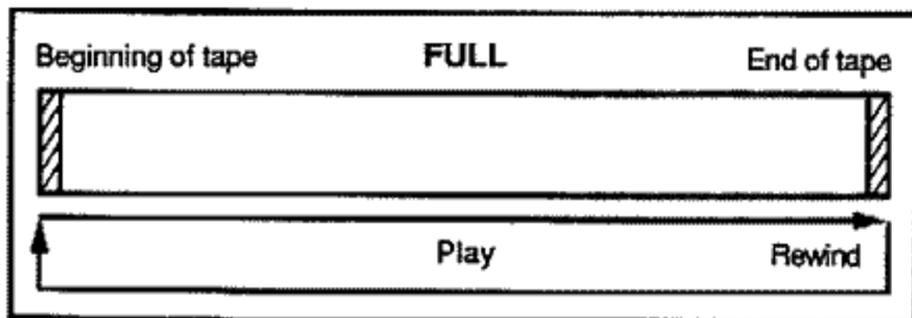
Note:

- For various tape access methods that can be used in different applications, refer to pages 34 and 35.



REPEAT PLAYBACK — FULL REPEAT OR INDEX REPEAT

This function allows you to set the video recorder for repeated playback (5 times) of the entire tape ("FULL") or repeated playback (5 times) of a segment of the tape from one index mark to the next ("INDEX").



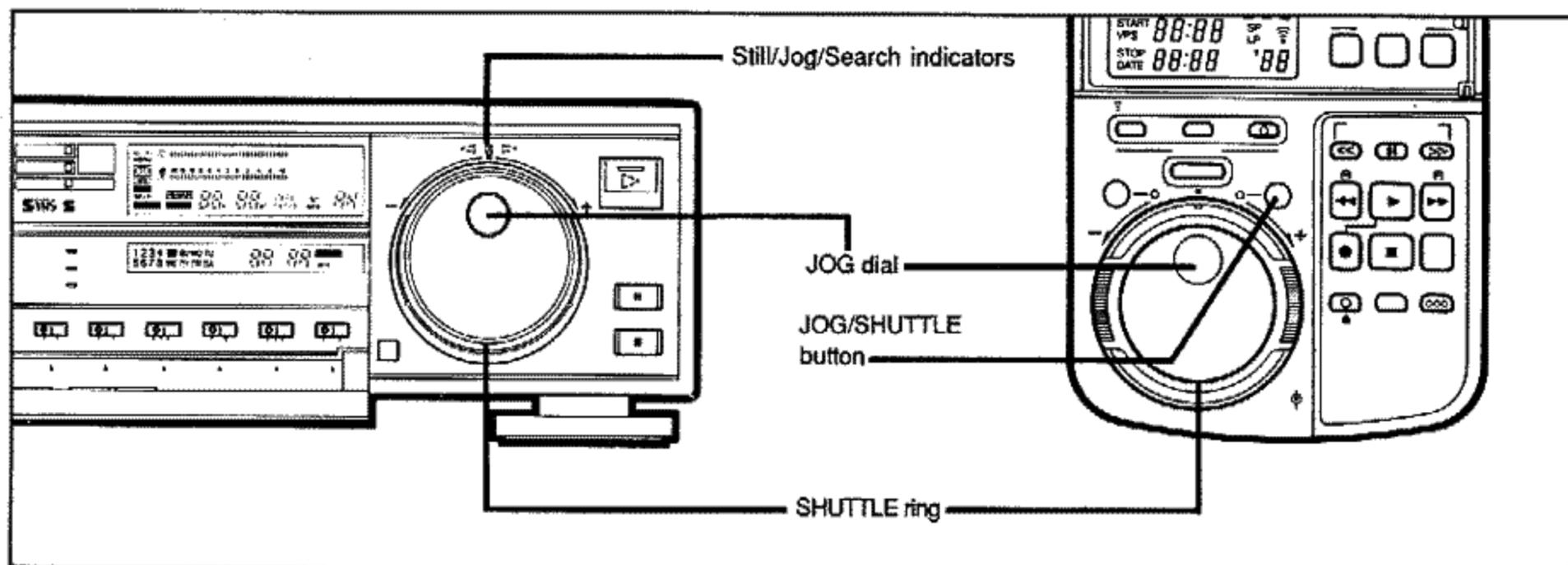
- 1 Set the REPEAT switch **Ⓢ** as required.
- 2 With the switch in the INDEX position, you can designate the segment using the Index Search mode or Index Mark function. (See page 35).

Note:

After repeat playback, be sure to reset the REPEAT switch to "OFF".

SPECIAL-EFFECTS PLAYBACK WITH JOG/SHUTTLE CONTROLS

ENGLISH

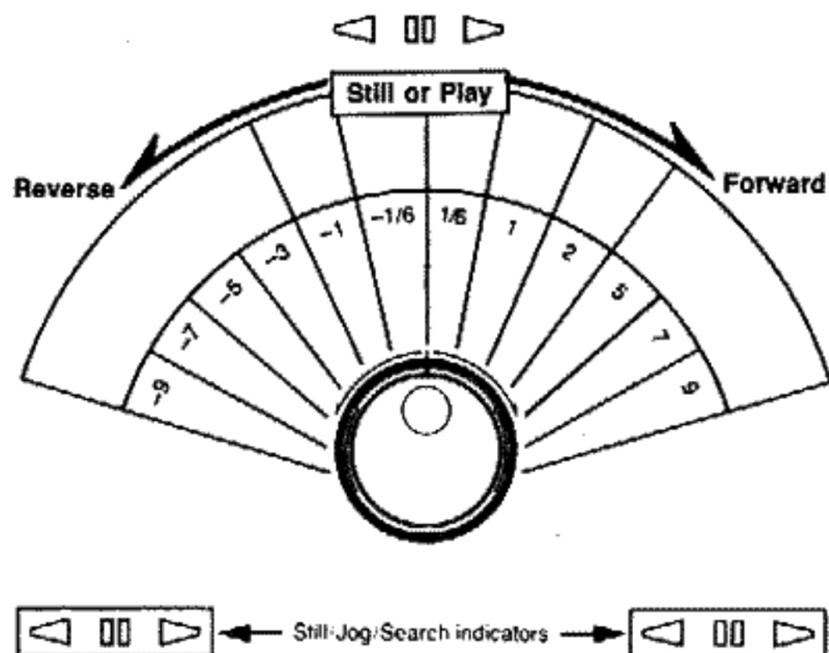


VARIABLE-SPEED SEARCH

SHUTTLE ring (When using the remote control's SHUTTLE ring, press the JOG/SHUTTLE button first so that its LED indicator lights.)

By turning the SHUTTLE ring clockwise or counterclockwise, variable-speed search is possible in either the forward or reverse direction from either the Play or Still mode.

- To search in the forward direction, turn the SHUTTLE ring gradually clockwise. The farther the dial is rotated, the faster the search speed becomes — from 1/6 to 9 times normal in the SP and LP modes.
- To search in the reverse direction, turn the SHUTTLE ring gradually counterclockwise. The farther the dial is rotated, the faster the search speed becomes — from -1/6 to -9 times normal in the SP and LP modes.
- Releasing the SHUTTLE ring produces a still picture on the screen.
- The direction indicators (</>) show in which direction the tape is moving.



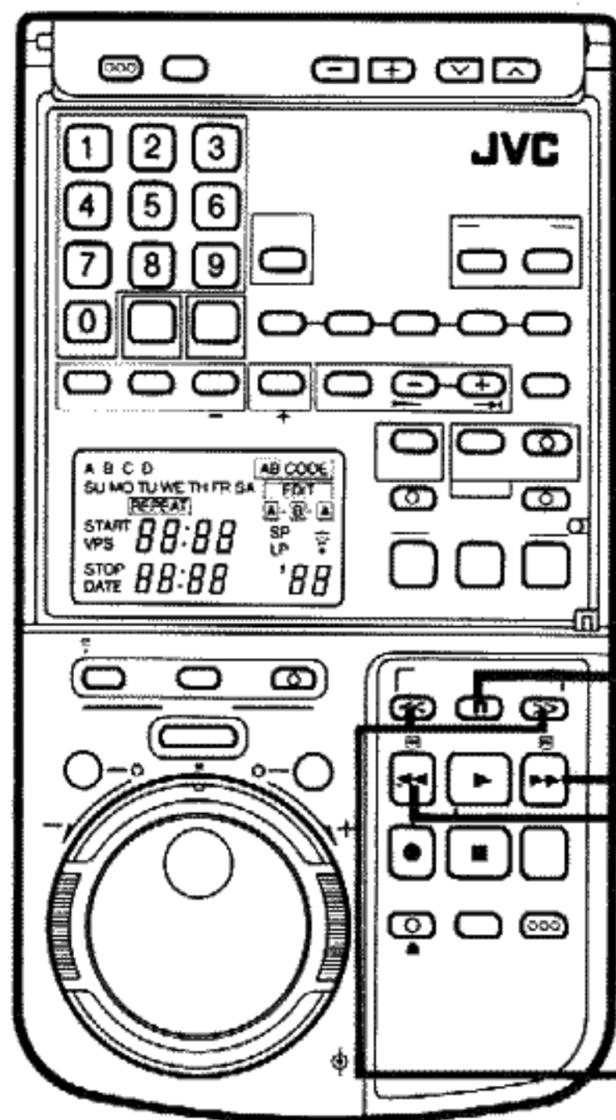
FRAME-BY-FRAME PLAYBACK

JOG dial (When using the remote control's SHUTTLE ring, press the JOG/SHUTTLE button first so that its LED indicator lights.)

- While in the Still mode, the tape can be advanced or moved back a frame at a time for precise location of a specific point in a scene. (This function is especially convenient for locating edit-in and edit-out points during editing.)
- Turn the JOG dial clockwise while in the Still mode to advance the picture; counterclockwise to move the picture back.
- If the JOG dial is rotated at a speed of about one revolution per second, the picture moves at about 1/6 normal speed. If rotated at about two revolutions per second, the picture moves at about normal speed playback.

SPECIAL-EFFECTS PLAYBACK WITH OTHER BUTTONS

ENGLISH



STILL PLAYBACK AND FRAME ADVANCE

|| button

- To view a still picture, press this button in the Play mode.
- To advance the picture frame by frame, press this button again.
- To return to normal playback, press the ► button.
- When the Still mode continues for longer than about 5 minutes, the Stop mode will be entered automatically.

HIGH-SPEED FORWARD SEARCH

▶▶ button

- To fast forward the tape, press this button in the Stop mode.
- To shuttle search the tape in the forward direction, press this button in the Play mode.
- The shuttling speed is about 9 times normal.
- Press the ► button to return to normal playback.
- For briefer scanning, keep the button pressed for more than 2 seconds; when you release the ▶▶ button, the Search mode will be cancelled.

HIGH-SPEED REVERSE SEARCH

◀◀ button

- To rewind the tape, press this button in the Stop mode.
- To shuttle search the tape in the reverse direction, press this button in the Play mode.
- The shuttling speed is about 9 times normal.
- Press the ► button to return to normal playback.
- For briefer scanning, keep the ◀◀ button pressed for more than 2 seconds; when you release the button, the Search mode will be cancelled.

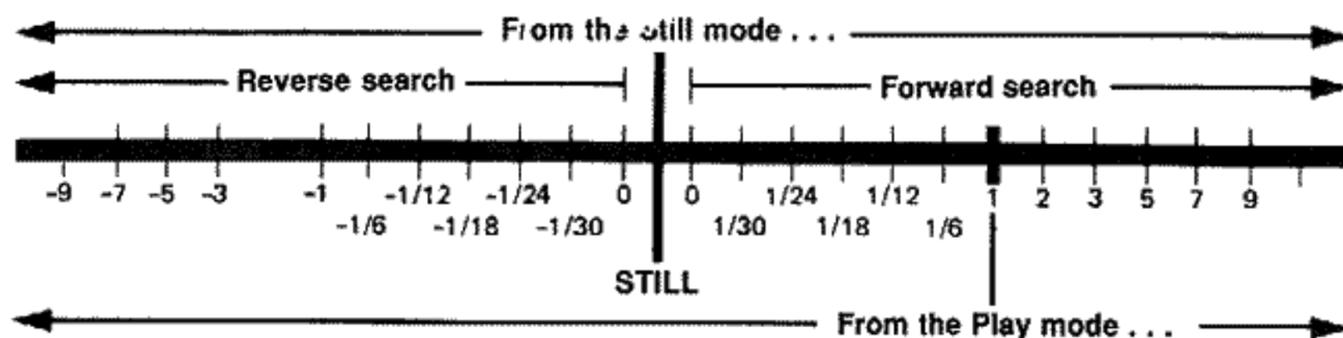
VARIABLE-SPEED SEARCH AND SLOW MOTION

VARIABLE SEARCH buttons (<</>>)

The variable search buttons control both the direction and speed of tape search, making possible fast- and slow-motion playback in either forward or reverse direction from either the Still or Play mode.

Operation tips:

- To increase speed while in the forward direction, press >> repeatedly; to decrease, press << repeatedly. The direction reverses after leaving the Still mode.
- To increase speed while in the reverse direction, press << repeatedly; to decrease, press >> repeatedly. The direction reverses after leaving the Still mode.
- To return to normal playback, press the Play button.

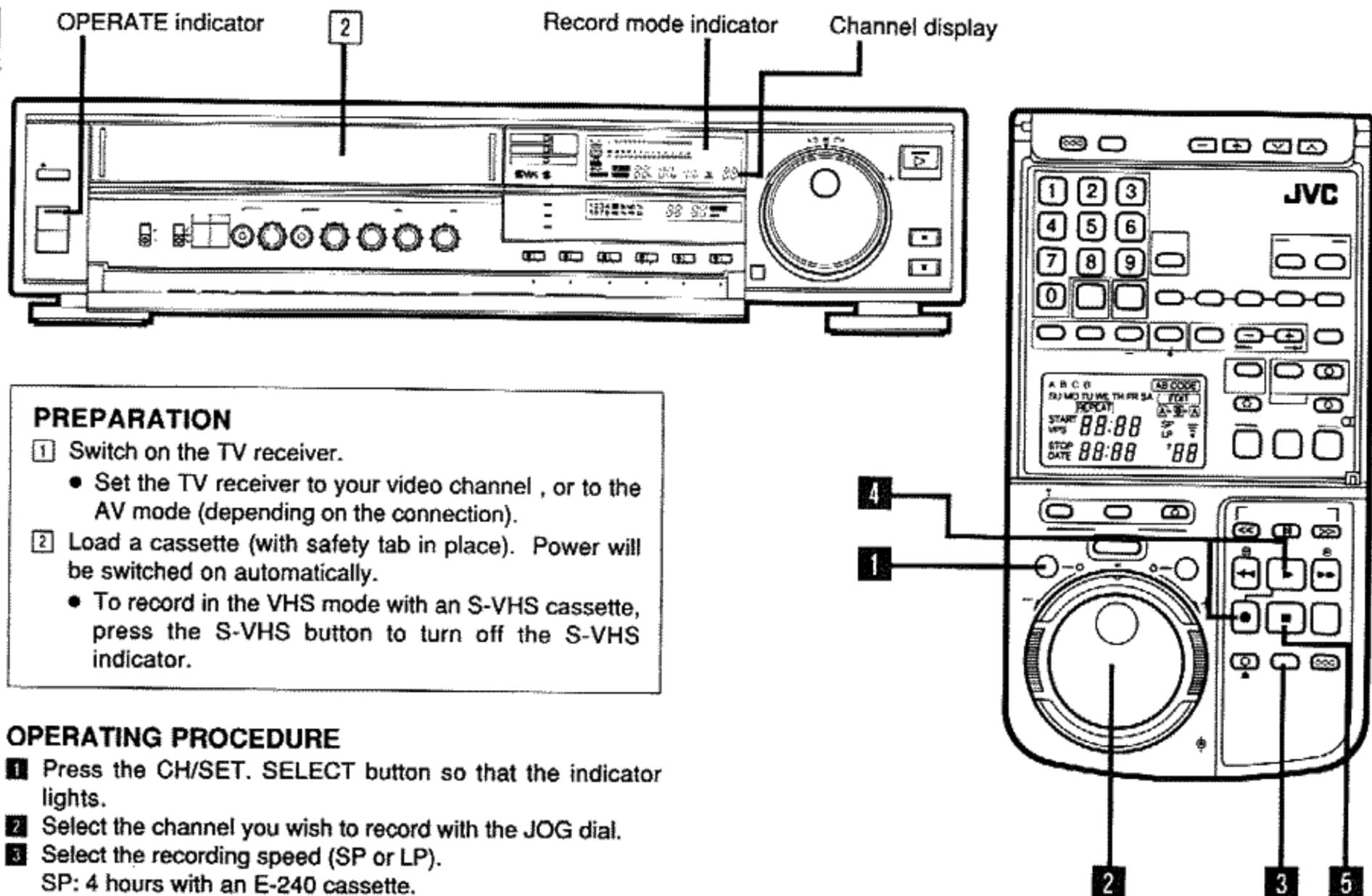


Notes:

- With some televisions, the still picture may be unstable. If vertical vibration of the picture is observed, attempt to correct it by pressing the V.LOCK buttons.
- If noise bars are visible in the Special-Effects Playback mode, attempt to correct it in the manual tracking mode as described on page 23.
- No audio is available during any special-effects playback mode.
- When playing back VHS LP recordings in the Special-Effects Playback mode, the picture will be distorted, and there may be a loss of colour.

BASIC OPERATION FOR RECORDING TV PROGRAMMES

ENGLISH



PREPARATION

- 1 Switch on the TV receiver.
 - Set the TV receiver to your video channel, or to the AV mode (depending on the connection).
- 2 Load a cassette (with safety tab in place). Power will be switched on automatically.
 - To record in the VHS mode with an S-VHS cassette, press the S-VHS button to turn off the S-VHS indicator.

OPERATING PROCEDURE

- 1 Press the CH/SET. SELECT button so that the indicator lights.
- 2 Select the channel you wish to record with the JOG dial.
- 3 Select the recording speed (SP or LP).
 SP: 4 hours with an E-240 cassette.
 LP: 8 hours with an E-240 cassette.
- 4 Press the ● and ► buttons simultaneously to start recording. "INDX" will appear on the FDP and blink to show that an index code is being recorded.
 (When using the video recorder's front panel control buttons, press REC/ITR once to start recording.)
- 5 Press the ■ button at the end of the programme.

RECORDING ONE TV PROGRAMME WHILE WATCHING ANOTHER

A programme not being viewed can be recorded while you enjoy viewing another programme. This permits the recorded programme to be played back later at your convenience.

The key points to remember are:

- Select the channel you wish to record with the recorder's channel selector.
- Select the channel you wish to view with the TV receiver's channel selector.

Notes:

- If the REC/ITR button is pressed more than once, the Instant Timer Recording mode will be entered (see page 30). To return to ordinary recording, repeatedly press the REC/ITR button until the ITR indicator on the FDP extinguishes.
- If there is part of the programme you do not want to record, press the ■ button. To release the Pause mode. Press the ► button.
- When recording is restarted from the Record-Pause mode, assemble recording is performed so that the playback picture will not distort at the edit point. A few frames recorded before the pause may be erased due to overlap of the new recording. This is not due to any defect of the unit.
- When the Record-Pause mode continues for longer than about 5 minutes, the Stop mode will be entered automatically.
- If the record button cannot be engaged, check to see if the cassette safety tab has been removed. (See page 22).
- When the end of the tape is reached during recording, the tape is automatically rewound to the beginning and stops.
- The built-in tuner's automatic channel lock mechanism prevents the selected channel from being altered during recording. Therefore, if you wish to change the channel during recording, first engage the Record-Pause mode and then select a different channel by using the JOG dial on the remote control unit (first press the CH/SET•SELECT button).

RECORDING STEREO TV PROGRAMMES

(Applicable only to the West German Sound-Multiplex TV system)

If stereo TV programmes are broadcast in your area, this recorder automatically receives them in stereo. When a stereo programme is being received, the STEREO indicator lights and recording is made in stereo on the hi-fi audio track and in monaural (mixed L and R) on the normal audio track. To listen to the stereo soundtrack during recording, set the AUDIO MONITOR button (3) (1) for Hi-Fi L and R. If this button is left set either in the Hi-Fi L or R position, you will hear only one channel while recording, though the recording is being made in stereo.

- If the quality of the stereo sound being received is poor, set the FORCED switch (4) to MONO. The STEREO indicator will go off, and the broadcast will be received in monaural with better quality.

RECORDING BILINGUAL TV PROGRAMMES

(Applicable only to the West German Sound-Multiplex TV system)

When a bilingual TV programme is being received, the BILINGUAL indicator lights. There is a switch to select the soundtrack to be recorded on the normal audio track, however, because both soundtracks are recorded always on the hi-fi track for selective listening, you can ignore the switch labelled TV SOUND in most cases unless you need a special soundtrack on the normal audio track.

- Set the TV SOUND switch (5) to MAIN to record the main soundtrack (local language); to SUB to record the sub soundtrack (foreign language).
- To listen to the selected soundtrack from the hi-fi audio track while recording, press the AUDIO MONITOR button for either Hi-Fi L or R.
- To listen to the soundtrack being recorded on the normal audio track, press the MIX button (6) for NORM.

RECORDING FM SIMULCAST TV PROGRAMMES

FM simulcast TV programmes can be recorded using an FM stereo tuner. Connect necessary components. (Connect the FM tuner to the rear panel AUDIO IN connectors.) Select the TV channel broadcasting the simulcast programme with the recorder's channel select buttons and tune the FM stereo tuner to the station broadcasting the soundtrack for that TV programme.

The only difference from the basic recording procedure on page 27 is an additional step.

- Press the SIMUL button (7).

Then the SC indicator on the FDP will light. With this setting, the video and audio signals from the built-in tuner will be recorded on the video and normal audio track, and the audio signal from the FM stereo tuner will be recorded on the hi-fi audio track.

Notes:

- After finishing recording, be sure to press the SIMUL button to switch back to the Tuner mode.
- While recording simulcast programmes, it might happen that the hi-fi sound distorts momentarily at switching points between different programmes. This is not due to any defect of the unit.

RECORDING A TV PROGRAMME WHILE RECORDING AN INDEPENDENT AUDIO SOURCE

Using the "simulcast" recording function, you can record independent audio and video programmes, because the TV soundtrack is not lost, but recorded on the normal audio track. While recording a TV programme, record any audio source independently.

- Connect an audio component (such as an FM tuner) to the AUDIO IN connectors (8).
- Press the SIMUL button. The SC indicator on the FDP will light.

Notes:

- If you stop recording to avoid unwanted material of the TV programme using the PAUSE/STILL button, the audio programme from an external source is also cut.
- If television broadcasting comes to an end during recording, the hi-fi sound being recorded from an external source may distort. It is recommended that you check the timetable of TV broadcasts in advance.
- After finishing recording, be sure to press the SIMUL button to switch back to the Tuner mode, otherwise recording on the hi-fi audio track from the built-in tuner will not be possible.

CONVENIENT FACILITIES RELATED TO RECORDING

ENGLISH

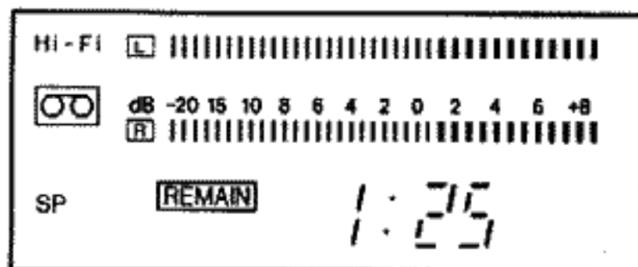
REMAINING TAPE TIME INDICATION

The tape counter can be switched to display the remaining tape time.

- Press the DISPLAY button to obtain the REMAIN tape time indication in hours and minutes on the FDP.

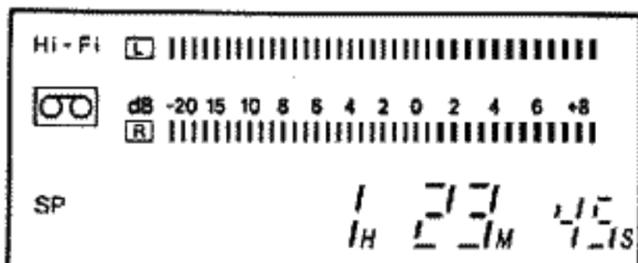
Note:

- The indicated remaining time is approximate.



ELAPSED RECORDING TIME INDICATION

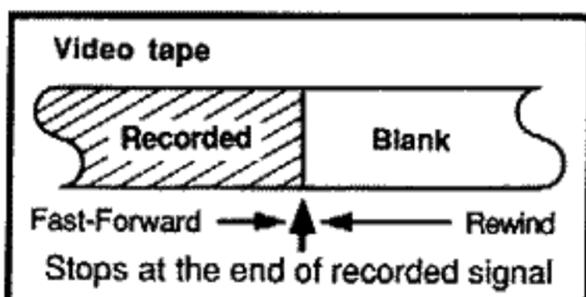
When you need to know the exact time of a recording, press the COUNTER RESET button before starting recording or playback. The counter will be reset to "0H 00M 00s" and show the exact elapsed time as the tape runs.



BLANK SEARCH

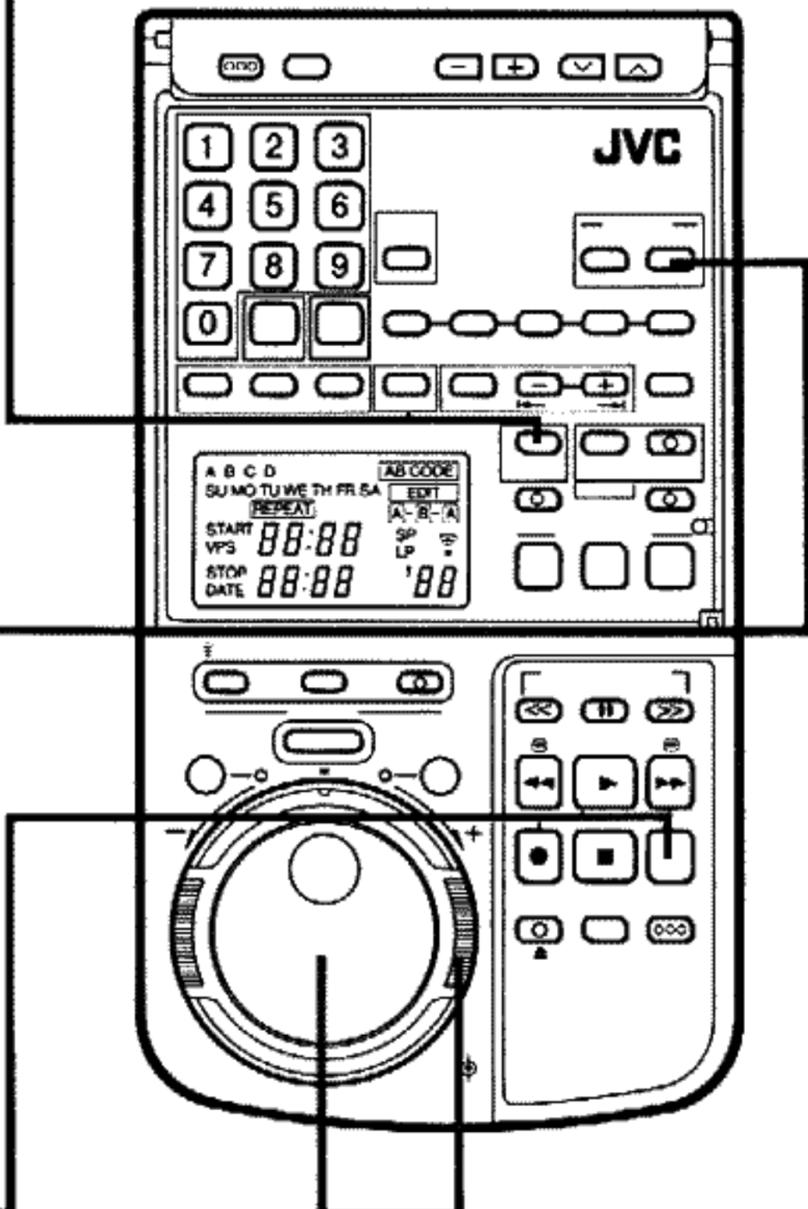
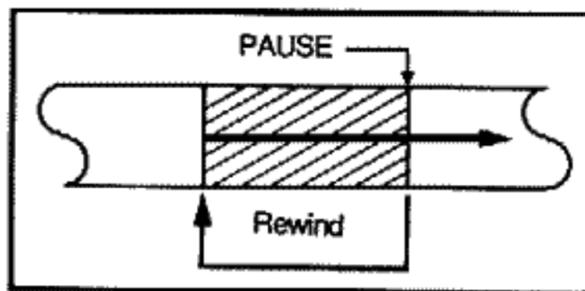
When you want to record a new programme on a partially recorded tape, use this function to automatically locate the end of a recorded section. Even when a fully recorded tape is used for re-recording new material, this system can be used to detect the end of the newly-recorded material.

- Insert a cassette and press the SKIP/BLANK SEARCH button.
- If a recorded signal is present, the recorder automatically enters the Fast Forward mode, and stops automatically around the end of that recorded section. Before starting recording, play back the tape to determine where to start a new recording.
- If the SKIP/BLANK SEARCH button is pressed where no signal is recorded, the recorder automatically enters the Rewind mode, searches for the end of the preceding recorded segment, and stops.
- When the SKIP/BLANK SEARCH button is pressed, the tape counter is automatically switched to the REMAIN mode and shows the remaining tape time in hours and minutes. To switch back to the realtime counter mode, press the DISPLAY button.



RETAKE FUNCTION

While in the Record-Pause mode, turning the JOG dial or SHUTTLE ring (First, press the JOG/SHUTTLE button) initiates search at the corresponding speed in the corresponding direction. Releasing the control engages the Record-Pause mode. If you have recorded unnecessary material because of having engaged the Record-Pause mode too late, use this function to return to the position where you want the next recording to start. Then, simply press the ► button when you want to re-start recording.



24-HOUR TIMER

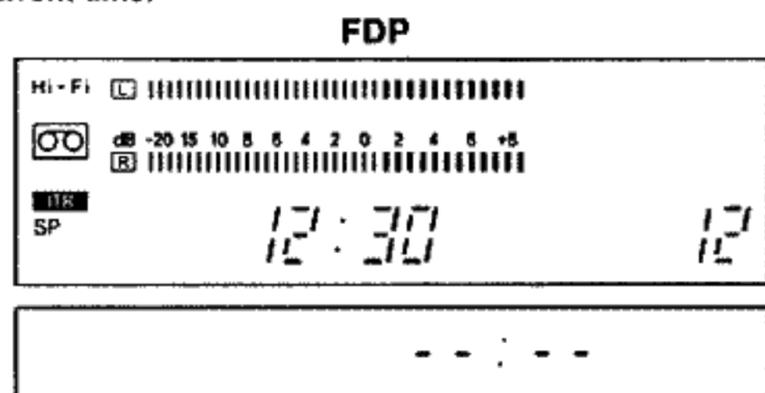
The 24-Hour Timer Recording feature allows unattended automatic starting and stopping of the recording of a single programme which starts within a 24-hour period.

Preparation

1. Insert a cassette with its safety tab in place. The recorder turns on automatically.
2. Select the channel you wish to record from.
3. Select the recording speed (SP or LP).

Setting the timer

- 1 Press the START button (⏻) to engage the 24-Hour Instant Timer Set mode. The following appears on the FDP with the current time.



- Each pressing delays the START time by 30 minutes
- For a more precise time setting, use the SELECT and SET buttons.

- 2 After reaching the desired START time, press the REC/ITR button the required number of times to set the desired length of recording time.

- For a more precise time setting, use the SELECT and SET buttons.

- 3 After confirming the START time and recording length, press the OPERATE button.

- "ITR" remains on the FDP and the 24-Hour Instant Timer Standby mode will automatically engaged.
- If the programme has not been correctly preset, the "ITR" indicator will blink for about 10 seconds when the OPERATE button is pressed. Recheck the programmed data.

Notes:

- At each step of the timer setting procedure, if no data is entered within 10 seconds, the 24-Hour Timer Set mode is cancelled, and the current time is displayed.
- To cancel the 24-Hour Timer Set mode, press the CANCEL button once or twice depending on the setting status.
- 24-Hour Timer Recording has priority over other timer programme settings; therefore, no other programmes, set for timer recording, will be recorded until 24-Hour Timer Recording has been executed.

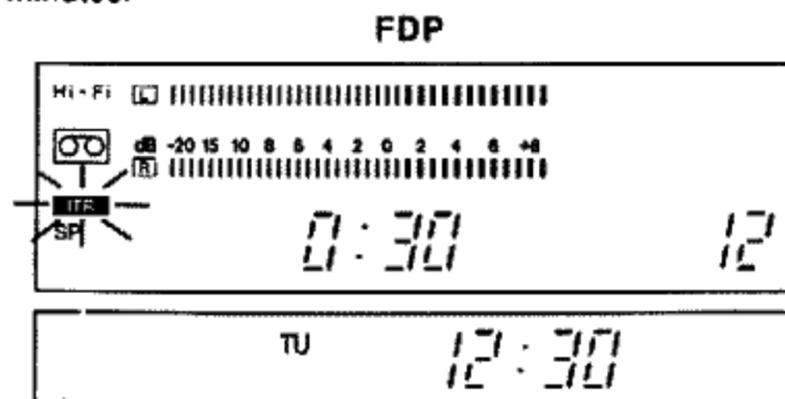
OFF-TIMER

- Start recording as described on page 27.

After you start recording, the recorder can be set to stop automatically after a certain period of time. Use this facility for starting a recording before you go to bed or leave home.

- 1 Press the REC/ITR button while recording (or twice if in the Stop mode).

- The following indication will appear on the FDP, to show that the recorder is recording in the Instant Timer Recording mode and power will switch off after 30 minutes.



- 2 Each time the REC/ITR button is pressed, recording time increases by 30 minutes to a maximum of 4 hours. If the REC/ITR button is pressed again, the Normal Recording mode will be entered.

- For a more precise time setting, use the SELECT and SET buttons to set to the exact time required (possible up to 8 hours and 59 minutes).

Notes:

- While recording is in progress, the displayed time counts down; when 0:00 is reached, the Record mode is released after 10 seconds and the power is switched off.
- If you want to stop recording after having started recording in the Instant Timer Record mode, press the STOP button.
- If instant timer recording is engaged while the unit is in the Pause mode, the timer will count down normally, but recording will not begin until the PLAY button is pressed.
- When the Instant Timer Record-Pause mode continues for longer than 5 minutes, the mode is released and power is switched off.
- If you want to check the elapsed time (Realtime Counter reading) on the FDP while performing Instant Timer Recording, press the DISPLAY button to obtain the desired indication. After about 5 seconds, the indicator will return to the ITR mode and the remaining time indication will reappear automatically.

AUTOMATIC TIMER RECORDING

ENGLISH



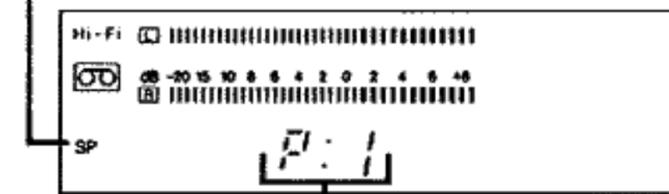
First of all, load a cassette (with safety tab in place); power will be switched on automatically.

A. Local Programming

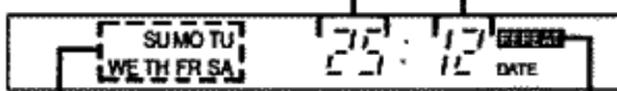
1 Press the PROG. button.

- The display will change to the Timer Set mode for programme number "1". To advance to programme numbers 2 – 8, press either SET button a required number of times.
- By pressing the remote control's OSD button while the FDP is in the Timer Set mode, the on-screen display is also available.

Recording speed indicator



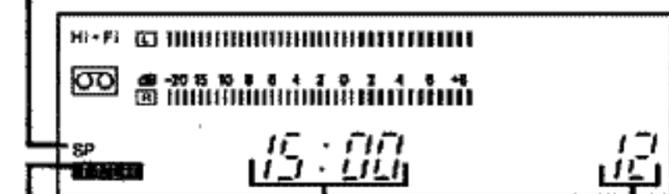
Programme number Day Month



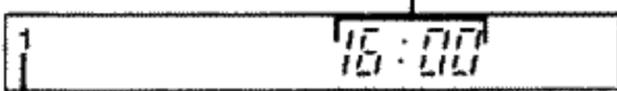
Daily serial indicator

Weekly serial indicator

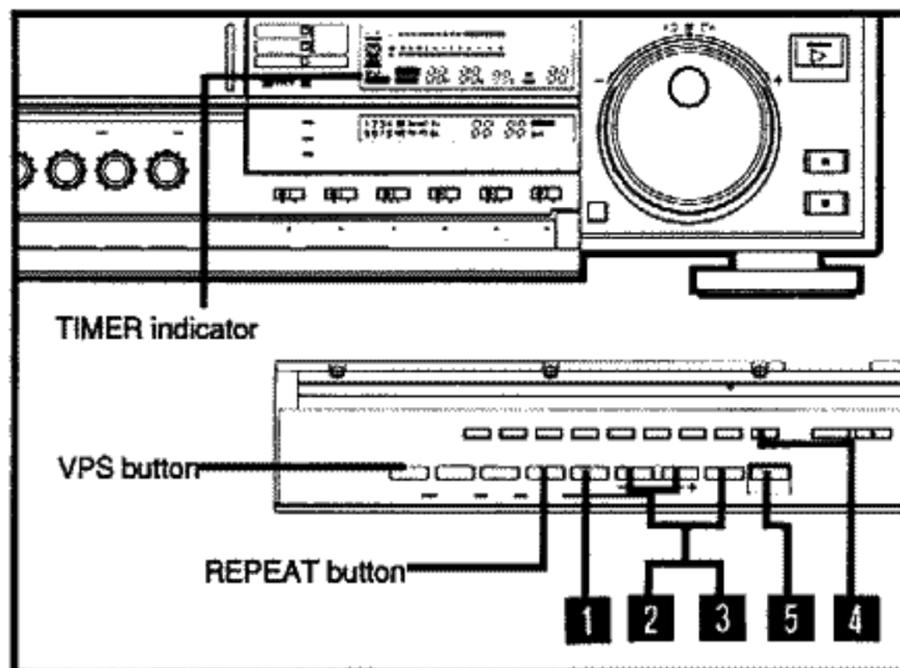
Recording speed indicator



Timer indicator Start time Stop time Channel



Programme number



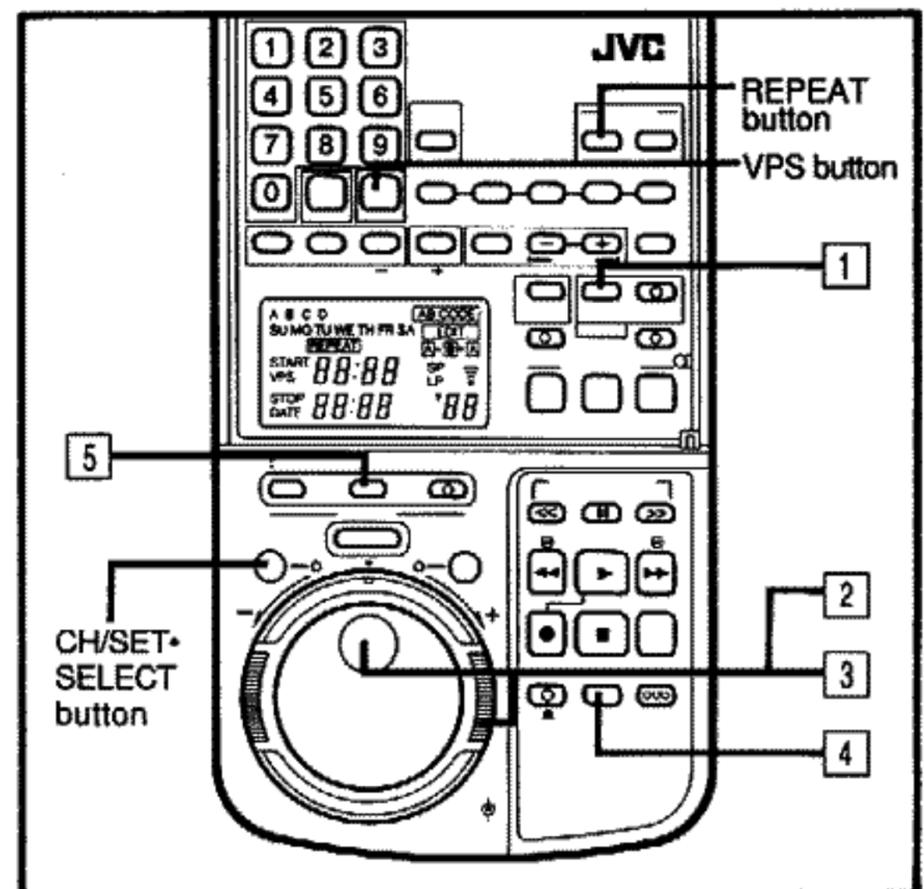
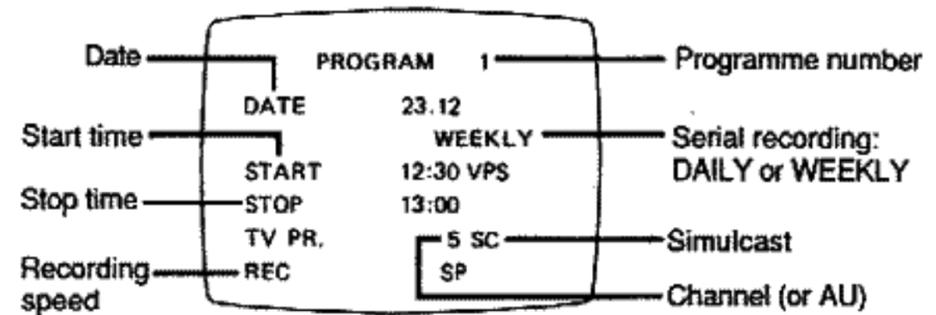
2 Set the date by using the SHUTTLE ring or the SELECT button and the JOG dial or the SET buttons.

- Select the item to be set with the SHUTTLE ring or the SELECT button; the selected item will blink.
- Set the desired data with the JOG dial or the SET +/- buttons.
- To record a daily serial starting on the day of setting, there is no need to enter any date figure; simply advance to the next item.
- To record a weekly serial, press the REPEAT button once.
- To record a daily serial starting on a certain day, press REPEAT twice.

B. On-Screen Remote Programming

1 Press the VTR PROG. button.

- The TV screen will change to the Timer Set mode for programme number "1" in one of the selected languages. (For language selection, see page 14.) To advance to programme numbers 2 – 8, first press the CH/SET+SELECT button and turn the JOG dial.



3 Set the start time, stop time and channel in succession in the same way as for setting the date.

- When not using the VPS recording system with the VPS adapter connected, before setting the channel, press the VPS button to make "VPS" disappear.
- For programming the timer to record an external source, while the channel position is blinking, turn the JOG dial or press SET +/- until the "AU" indicator appears in the channel display section.

4 Select the recording speed (SP or LP).

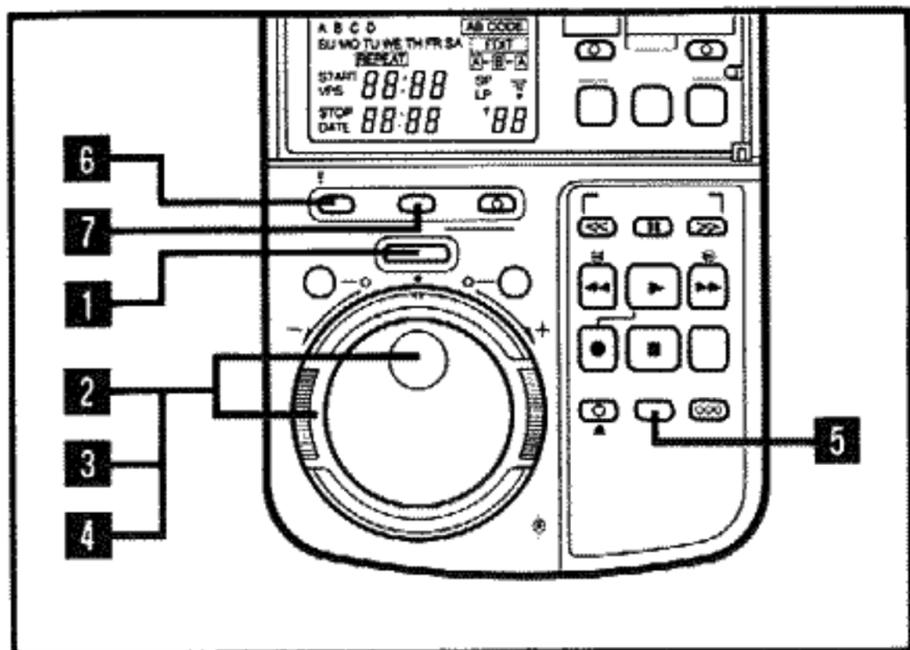
- SP: 4 hours with an E-240 cassette.
- LP: 8 hours with an E-240 cassette.

5 After making sure that the cassette is loaded, press the TIMER button.

- The Timer Recording Standby mode will be engaged with the TIMER indicator and the preset programme number(s) illuminated and the power turned off.
- With no cassette loaded, the TIMER and "cassette loaded" indicators will continue blinking.
- A cassette whose safety tab has been removed will be ejected automatically.
- If a preset programme contains errors, the programme number will not illuminate. Recheck the programmed data.

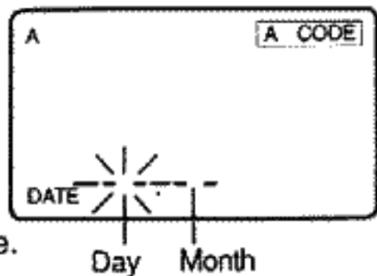
C. Independent Remote Programming

- The remote control incorporates 4 programme memories (A, B, C and D).
- The programmed data is held in memory even after it has been transferred to the recorder.



1 Press the MEMORY PROG. button.

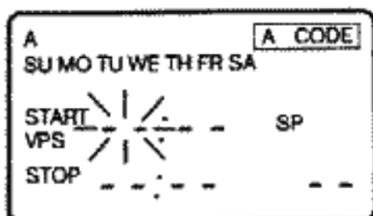
- The LCD will be activated for programme memory "A".
- To advance to programmes B to D, turn the JOG dial.



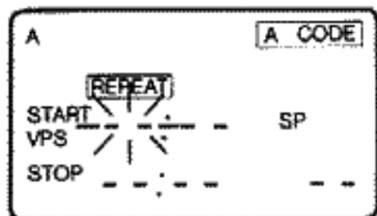
2 Turn the SHUTTLE ring clockwise.

3 Enter the date turning the JOG dial, then turn the SHUTTLE ring clockwise.

- Invalid numbers will be rejected.
- To record a daily serial starting on the day of setting, turn the SHUTTLE ring clockwise without entering any date figure.
- To record a weekly serial, press the REPEAT button once and enter the date.
- To record a daily serial starting on a certain day, press the REPEAT button twice and enter the date.



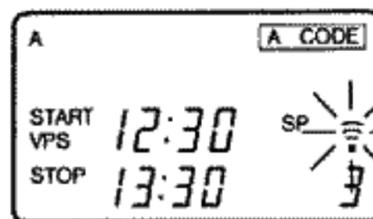
For daily serial setting



For weekly serial setting

4 Enter the start time, stop time and channel in succession.

- When not using the VPS recording system with the VPS adapter connected, before setting the channel, press the VPS button to make "VPS" disappear.
- If the VPS adapter is not connected, the VPS information is not memorized in the recorder even though the VPS indicator is visible on the LCD. Therefore, it is not necessary to turn it off.
- For programming the timer to record an external source, turn the JOG dial counterclockwise while the channel is blinking; "AU" will appear on the LCD. When transferred in step 5, "AU" will appear in the channel display section on the FDP.



Transfer-ready mark

5 Select the recording speed (SP or LP).

SP: 4 hours with an E-240 cassette.

LP: 8 hours with an E-240 cassette.

6 Direct the remote control to the recorder's Remote Sensor window and press the TRANS button.

- The programmed data will be loaded in one of the recorder's memories (1—8), the vacant one of the smallest programme number.
- If all programme memories are full, the recorder's clock will blink and transmission will not take place.
- Call up the programme(s) to be cancelled by pressing the VTR PROG. button, then press the VTR CANCEL button to cancel it. Data transfer can now be made by pressing TRANS again.

7 Press the TIMER button.

- Check to see that the TIMER indicator appears on the FDP.

Setting the date, start and stop times, and channel

- It is not possible to set the date, start and stop times unless the date and clock have previously been set.
- Enter the data while the digits are blinking.
- The stop time can be set within 24 hours of the start time.
- Non-applicable numbers (such as January 32, February 30 for dates, 24 or larger for hours, 60 or larger for minutes and 49 or larger for channels) will be rejected when set to.
- For programming the timer to record an FM simulcast programme, press the SIMUL button on the recorder.

Cancelling the preset data

- The preset programmes can be cancelled. First disengage the Timer Standby mode and then engage the Timer Set mode for the programme number you wish to cancel and then press the CANCEL button or the VTR CANCEL button. Or for the remote control's memory, press the MEMORY CANCEL button.
- An executed programme is automatically cleared.

Checking the programmed data

- Checking can be performed anytime, even after the TIMER button has already been engaged. To do this, press the PROG. button while in the Timer Standby mode. The programme number will blink on the FDP and you can check each programme by advancing programme numbers with the JOG dial or SET buttons. If re-programming is required, disengage the Timer Standby mode and use the regular programming method. Pressing the PROG. button and/or SET buttons or turning the JOG dial engages the FDP in the check mode in which no position blinks and data correction is not possible. For correction of data, turn the SHUTTLE ring or press the SELECT button and move the cursor to a position which requires correction.

Timer recording operation

- When the preset start time is reached, recording starts.
- After timer recording, the power is switched off. If the end of the tape is reached during timer recording, the cassette is automatically ejected and then the power is switched off.

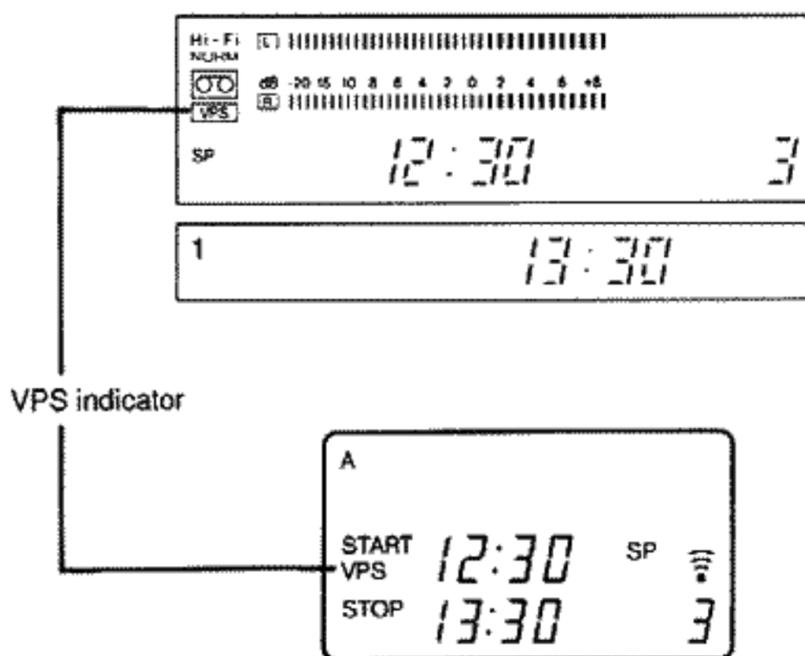
VPS RECORDING

VPS (Video Programme System) is a broadcast system employed by TV stations in certain countries. In the VPS system, TV stations transmit different VPS codes for different TV programmes, which control the starting and stopping of the video recorder and have precedence over times preset in the timer for accurate recording of a particular programme from start to finish. For using this function, an optional adapter, the VPS adapter, or the VPS/VPT (VPV) adapter (if teletext operation is also required), must be connected to the rear panel of the recorder.

- 1 Press the PROG. button (1) (or the VTR PROG. button (2)) or, for the remote control's memory, the MEMORY PROG. button (3).
- 2 Set the date, start time, stop time and channel in the same way as for timer programming.
- 3 Press the VPS button (4) or the VPS/CH button (5).
 - All timer data will be converted to VPS codes and stored in memory.
- 4 Press the TIMER button (6) or (7).
 - The recorder will enter the VPS Standby mode at 20:00 on the day previous to the preset day and remain engaged until 3:59 on the following day, if the intended programme has not yet been broadcast.
 - When a VPS code corresponding to the intended TV programme is detected during the VPS Standby mode, recording will start. When the VPS code changes to another, recording will stop.
 - When an interruption code is detected during VPS recording, the VPS standby mode is engaged and recording restarts when the regular VPS code is restored.

Note:

- Operation at the end of VPS recording is the same as with ordinary timer recording.



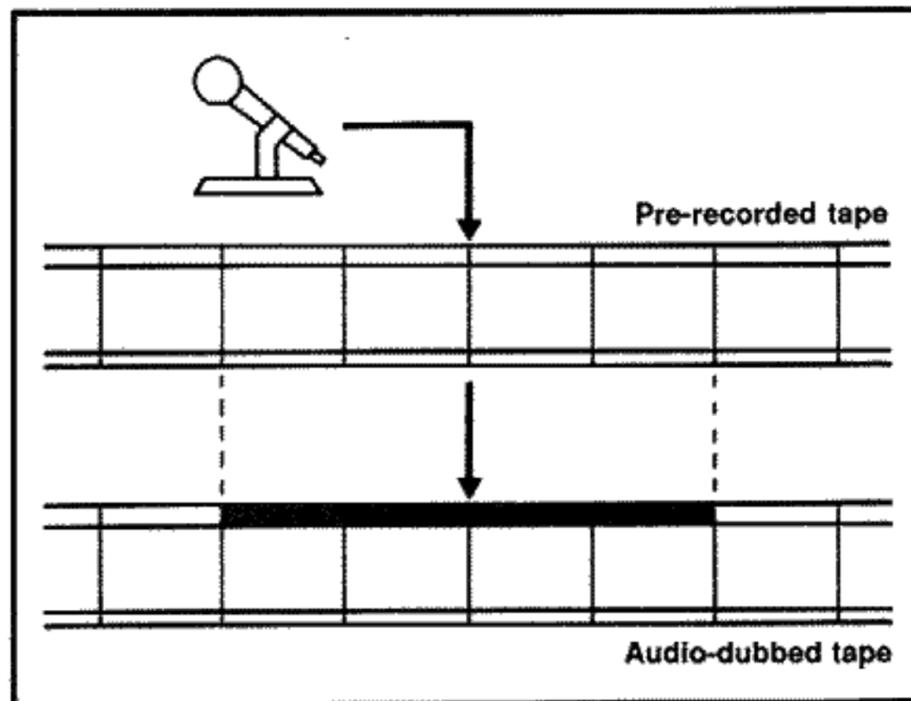
AUDIO DUBBING

Audio dubbing means recording a new soundtrack on a pre-recorded tape. In other words, the previously recorded sound is erased and replaced with a new soundtrack.

Audio dubbing is applicable only to the longitudinal audio track (normal audio). Therefore, a dubbed narration can be heard together with the original hi-fi sound.

Operation

- 1 Switch on the TV receiver.
 - Adjust it to your video channel or to the AV mode (depending on the connection).
- 2 Load a pre-recorded cassette. Power will be switched on automatically.
- 3 Connect a microphone to the MIC jack (16).
- 4 Turn the JOG dial (first, press CH/SET-SELECT) to obtain "AU" on the FDP.
- 5 Be sure that the MIC MIX control (17) is set to the appropriate level when required. Connect a pair of headphones to monitor this sound level adjustment.
- 6 Press the PLAY button (18) to start playback and then use the JOG/SHUTTLE controls to search for the point from which you wish to start audio dubbing. Release the JOG dial or the SHUTTLE ring at the start point of audio dubbing.
- 7 Press the AUDIO DUB button (19).
- 8 Press PLAY.
 - Audio dubbing will start.



Notes:

- If whistling or howling is heard during audio dubbing, reduce the TV volume or move the microphone farther away from the TV. Recording is being performed even if sound is not heard from the TV receiver. If you want to monitor the sound being recorded, connect headphones to the PHONES jack.
- Marking index codes is not possible while audio dubbing is being performed.

CAUTION:

- Audio dubbing is not possible with an audio source connected to the rear panel AUDIO IN connectors.

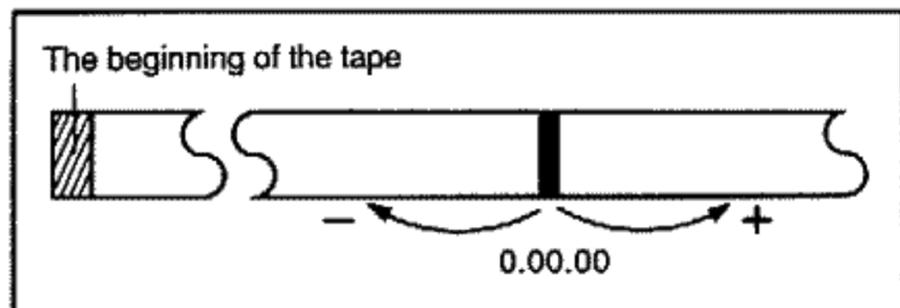
CONVENIENT TAPE ACCESS FUNCTIONS

REALTIME TAPE COUNTER

Unlike usual tape counters which show tape locations in numbers, this realtime tape counter shows tape time precisely in hours, minutes and seconds in all modes. The counter resets automatically when a cassette is inserted.

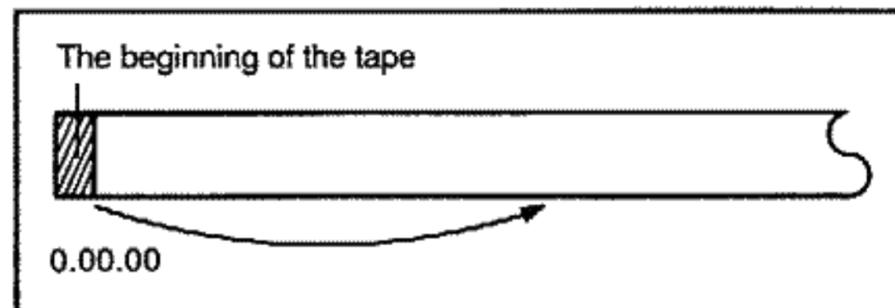
REALTIME SEARCH

To locate any point on the tape a specified time away from the current position in either direction.



REALTIME GO-TO

To locate any point on the tape a specified time away from the beginning of the tape.



1 Press the remote control's GO-TO button while in the Play, Still or Stop mode.

- The FDP will show "GO-TO -H -M -S" if the recorder did not detect the leader tape when the cassette was loaded; it will show the current tape counter reading if the leader tape has been detected.
- "GO-TO 0H 02M 34s" (for example) will appear if the recorder has already detected the leader tape, to show the current tape counter reading in terms of realtime from the tape's beginning.

2 Press either CURSOR (←/→) button to specify the direction.

3 Specify the time to the point to be located, by using the numeric keys.

- Always key in a full number.

4 Press the ► or ■ button (■ button, if either the Play or Still mode is already engaged).

- Depending on the situation, search will take place in either the Shuttle Search mode or in the Fast Forward or Rewind mode. After the specified point is reached, playback starts automatically, the tape stops automatically or enters the Still mode, depending on the command.

The procedure is the same as for the Realtime Search except step **2**. Specifying the direction is not necessary.

Notes:

- Each step in the operation procedure must be followed by the next within 60 seconds, otherwise the Go-To or Search mode will be cancelled.
- Use of the other control buttons while in the Go-To or Search mode cancels that mode.
- If the specified time exceeds the tape length, the tape fast forwards to the end and then rewinds to the beginning and stops or enters the Play mode.

COUNTER MEMORY FUNCTION

1 Press the COUNTER RESET button at a point which you may wish to locate later.

- The counter will read "0H 00M 00s".

2 Press the COUNTER MEMORY button. **M** will appear on the FDP.

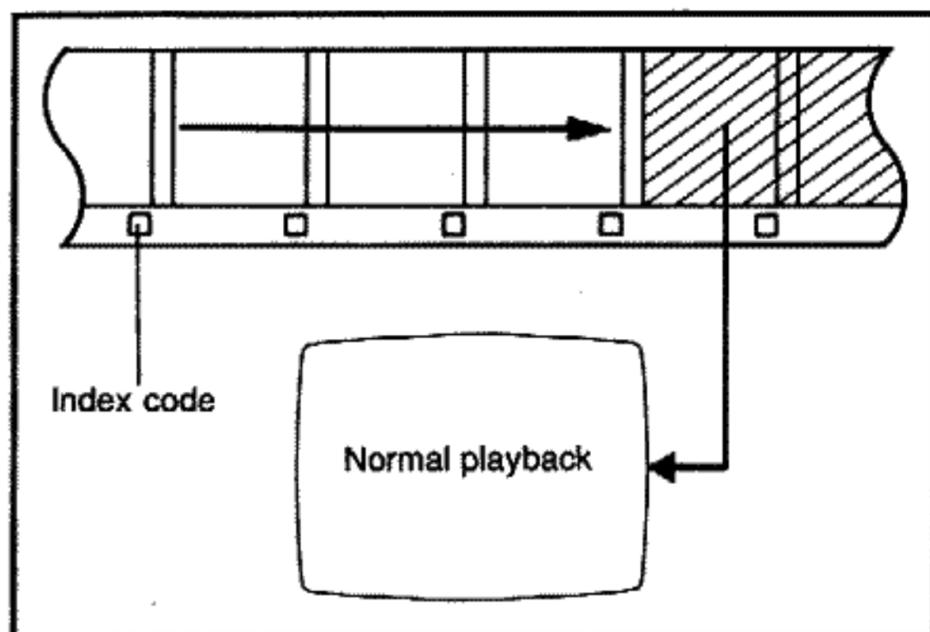
3 Press the ◀◀ (or ▶▶) button when you need to return to the designated point.

- The tape will rewind (or fast forward) and stop at about "0H 00M 00s" automatically.
- The Counter Memory function can also be used in conjunction with the Memory Play function (page 24).

CONTINUED ON NEXT PAGE . . .

INDEX SEARCH

The Index Search function gives you automatic access to the beginning of individual recordings on the cassette tape. An index code is automatically placed on the tape's control track each time a recording is begun. You can access any one of up to 99 of these indexed segments in either the forward or reverse direction.

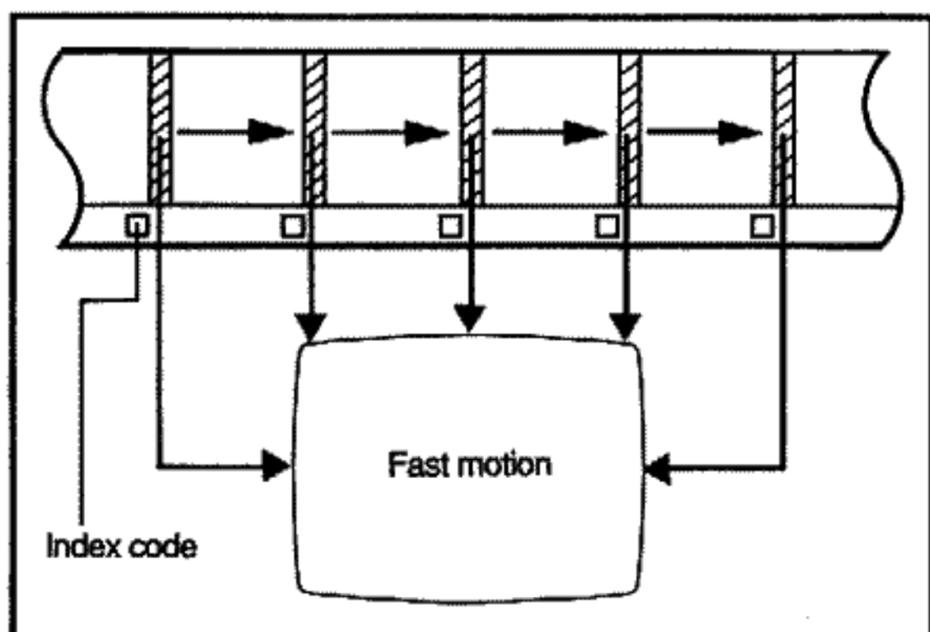


- 1 Press the INDEX button while in the Play or Stop mode.
 - The channel display of the FDP will change to the Index Search mode and "INDX" will light.
- 2 Specify the index number (1 – 99) using the numeric keys within 10 seconds.
 - The specified number will appear on the FDP.
- 3 Press either the ◀◀ or ▶▶ button.
 - The tape will move and the index numbers count down to 0, where normal playback will start.
 - If the INDEX button was pressed in the Play mode, the screen shows search pictures; if the button was pressed in the Stop mode, the index codes are detected in the Rewind or Fast-Forward mode.

Notes:

- To cancel the Index Search mode before completion, press the ▶ or ■ button.
- If the end of the tape is reached while still in the Index Search mode, the mode is cancelled and the tape rewound.

INTRO SEARCH



MANUAL INDEX MARK/ERASE

Index codes are automatically placed at the beginning of recordings which are started from the Stop or Timer Standby mode. You can use the MARK button to add extra codes, and the ERASE button to erase codes. In neither case is there any effect on the audio or video recordings on the tape.

Erase

In the Play or Still mode, press ERASE button to erase the next index code. The tape is automatically fast-forwarded and when an index code is detected, it will be erased automatically. "INDX" on the FDP remains lit during the searching process and blinks during the erasing process.

Mark

In the Play or Record mode, press MARK button once to put an index code onto the tape. "INDX" appears on the FDP and blinks during the marking process.

Notes:

- Index codes cannot be added or erased on a tape with its safety tab removed.
- The Erase mode is cancelled either after one index code has been erased or the Play mode is cancelled.

The Intro Search function lets you visually check the contents of each recording by playing back in fast motion a short segment of a programme each time an index code is detected.

- 1 Press the INTRO button while in the Play or Stop mode.
 - The INDX indicator on the FDP will light.
- 2 Press the ◀◀ or ▶▶ button within 2 seconds.
 - The Intro Search will start in the corresponding direction.
 - Each time an index code is detected, the corresponding part is played back at the search speed (9 times normal) for about 5 seconds.
- 3 When you find the section you want to view, simply press the ▶ button.
 - Normal playback will start.

RECORDING FROM AN EXTERNAL SOURCE

By connecting an external video source (such as a 2nd video recorder, VideoMovie camera-recorder, etc.) to this recorder, tape-to-tape transfer is possible.

- For connection of these units an appropriate cable is necessary.

RECORDING VIA THE AUDIO/VIDEO SOCKET

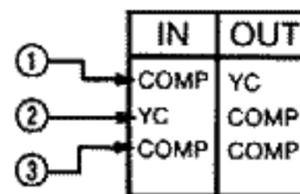
- Connect the AUDIO/VIDEO socket ⑤ to the appropriate audio/video output of the source equipment.
- Engage the recorder in the AUX mode ("AU" in the channel display) and set the AV/S button ⑥ so that the "S" indicator does not appear on the FDP.
- Set the AV IN/OUT SELECT switch ⑩ as required. (Refer to the chart.)
- Put the source equipment in the Play mode.
- Put the recorder in the Record mode.

Notes:

- For the operation of the source equipment, refer to the instruction manual of the relevant machine.
- When the optional VPT(VPV) adapter is connected to the AUDIO/VIDEO socket of the HR-S5800E, the adapter's SCART connector functions as the AUDIO/VIDEO socket (output only). Therefore, it is not possible to record via the 21-pin socket of the VPT adapter.

Setting of the AV IN/OUT SELECT switch

When this recorder is used as the source player, this switch functions as an AV OUTPUT SELECT switch, and when used as the recorder, it functions as an AV INPUT SELECT switch.



| | HR-S5800E | As the source player | As the recorder |
|--------------------------|-----------|----------------------|-----------------|
| Source equipment | | | |
| With a 21-pin AV socket | | ② or ③ | ① or ③ |
| With a 21-pin Y/C socket | | ① | ② |

RECORDING VIA S IN CONNECTOR

- Connect the S IN connector ⑤ to the S-Video output connector of the source equipment.
- Connect the AUDIO IN connectors ⑥ to the audio output connectors of the source equipment.
- Insert an S-VHS cassette and engage the AUX mode.
- Press the AV/S button so that the "S" indicator appears on the FDP.
- Put the source equipment in the Play mode.
- Put the recorder in the Record mode.

EDITING TO ANOTHER VIDEO RECORDER

This video recorder can also be used as the source player when editing tapes. This video recorder's remote PAUSE terminal is designed to accept a preroll command when used as a source player with a video deck which is preroll-capable and equipped with a Pause Control Output terminal. This combination makes possible synchronized preroll editing for high-quality editing results.

- confirm the setting of the AV IN/OUT SELECT switch referring to the chart above.

EDITING FROM A VIDEOMOVIE

- Connect the VideoMovie's AV OUT connector to the video recorder's AUDIO/VIDEO socket.
- Connect the mini-plug of the AV output cable to the remote PAUSE terminal of the video recorder.
- When the recorder is connected to a VideoMovie which incorporates a Master Edit Control system*, you can control the recorder with the VideoMovie's controls for making edits free of transition-point gaps and distortion. Refer to the VideoMovie's instruction manual for detailed operating procedures for editing.
- With this connection, you can also use the VideoMovie as a video camera for direct recording onto the recorder's tape. Put the recorder in the Record-Pause mode and operate the VideoMovie's start/stop trigger to start and pause recording. (For direct recording with a separate video camera, a camera adapter is necessary.)

*JVC dedicated models only.

Tips for obtaining better results

The quality of the edited tape may vary depending on the position of the EDIT switch. It is recommended that you first make some trial recordings.

EDIT



- With the EDIT switch of the playback deck set to ON and recording deck to OFF.
- With the EDIT switch of both playback and recording decks set to ON, and
- With the EDIT switch of both decks set to OFF.

Choose the setting combination that best suits your preference.

Note:

Also refer to the instruction manual of the 2nd video recorder you are using.

DUET EDITING

ENGLISH

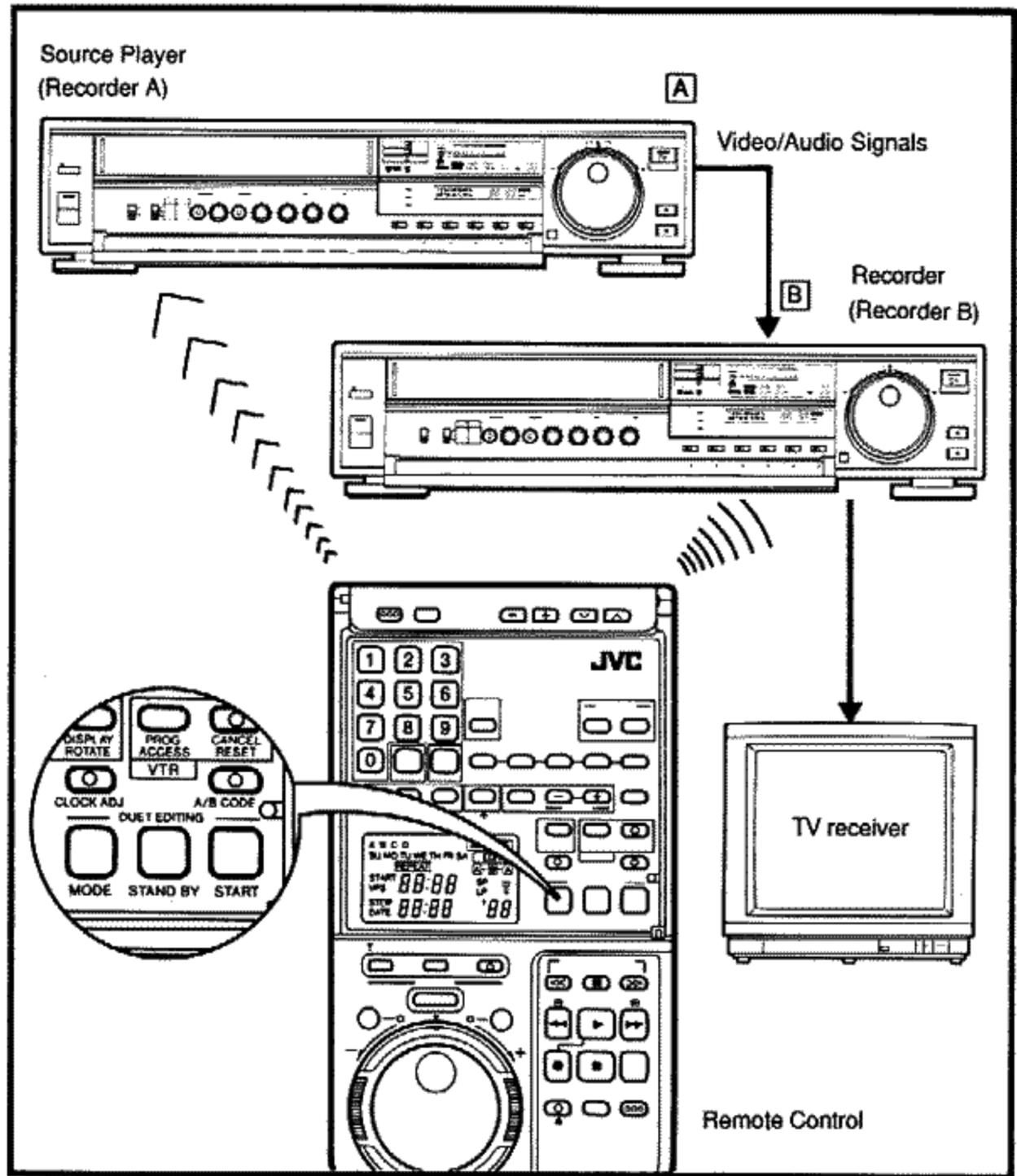
Designed specifically to simplify editing operations, the Duet Editing function delivers separate commands to two recorders simultaneously via a single remote control, taking advantage of the A/B code system. (JVC dedicated models only)

Preparations

- Connect two recorders as described in "RECORDING FROM AN EXTERNAL SOURCE" on the previous page.
- Set one recorder to respond to A code signals, the other, to respond to B code signals. (See page 8.)
- Place the two recorders side by side.

Notes:

- JVC video recorders with infrared remote control units which are not equipped with an A/B code select switch are designed to receive A code signals. Therefore, Duet Editing is possible with JVC decks if the HR-S5800E is set to respond to B code signals.
- It is not possible to perform Duet Editing unless the remote control's clock has been previously set.



OPERATION

| Remote Control | Recorder A (Source player) | Recorder B (Recorder) |
|---|--|-------------------------------|
| | Load a recorded tape. | Load a blank tape. |
| 1. Press EDIT MODE. "EDIT [A] → [B]" appears on LCD. | | |
| 2. Press STAND BY. | Enters STILL mode. | Enters RECORD-PAUSE mode. |
| 3. Search for an edit-in point on the source tape. Press III. | Functions as commanded. (In this state, only recorder A responds to the remote control's commands.) | Remains in RECORD-PAUSE mode. |
| 4. Press START. | Enters PLAY mode. | Enters RECORD mode. |
| 5. Press III. | Enters STILL mode. | Enters RECORD-PAUSE mode. |
| 6. Repeat steps 3, 4 and 5 to continue editing. | | |

Notes:

- You can use Recorder B (the recorder set to respond to B code signals) as a source player and Recorder A as a recorder. In this case, press the A/B CODE button after step 1 to obtain "EDIT [B] → [A]" indication.
- To cancel the Duet Edit mode and return to normal remote control functions, press the EDIT MODE button so that the EDIT indication disappears.
- When the START button is pressed, the recorder takes a few seconds before actual editing starts due to the automatic backspace editing system. At the same time the START button is pressed, the player starts playback from the specified edit-in point. Therefore, it is recommended that you specify a point slightly before the intended edit-in point in step 3 for more accurate editing. This also ensures that the picture of the resulting edit will be more stable.

INSERT EDITING

Insert editing means recording a new scene into a section of pre-recorded tape so that a part of the original recording can be replaced with a new sequence without excessive picture distortion at edit-in and edit-out points. Thanks to the flying erase head, clean edits can be obtained. New video and audio signals to be inserted can come either from another video cassette recorder or the built-in tuner.

CAUTION

Since video and audio signals are recorded simultaneously, both are replaced with new recordings simultaneously. However, the normal audio soundtrack remains unchanged.

Setting options of the relevant controls

| Source | Settings | AV/S button, AV IN/OUT SELECT switch and SIMUL button |
|---|----------|--|
| To insert programmes from a different tape | | AV or S (with AV/S button set as required – see page 36) |
| To insert TV programmes from the built-in tuner | | Select a channel (SIMUL button to OFF) |
| To insert FM simulcast programme | | SIMULCAST (SIMUL button to ON) |

Connection

To insert video and audio signals from another video cassette recorder, connect both recorders as described on page 36.

Procedure

- 1 Switch on the TV receiver.
 - Set the TV receiver in the appropriate mode.
- 2 Load a pre-recorded cassette.
- 3 Set the source as required. (See chart above.)
- 4 Set the Hi-Fi audio recording level. (See page 20.)
- 5 Play back the tape and engage the Still mode near the edit-out point (the end of the segment to be replaced).
- 6 Determine the edit-out point using the JOG/SHUTTLE controls. Releasing the controls engages the Still mode.
- 7 Press the C. RESET button.
 - The counter will be reset to "0H 00M 00s".
- 8 Use the JOG/SHUTTLE controls to search for the edit-in point (the beginning of the tape section to be replaced). Releasing the controls engages the Still mode.
- 9 Press the INSERT button.
 - This engages the Insert Standby mode in which the input signal can be monitored on the TV screen; the still picture changes into the input signal that you are going to record.
 - The input sound signal can also be monitored.
- 10 Operate the source equipment properly.
 - Play back on another recorder the tape programme to be inserted.
 - Select the channel to be recorded.
 - Select the channel and set the FM tuner.
- 11 Press the PLAY button to start insert editing.
 - Now video and audio signals will be recorded simultaneously.
 - At the counter reading of "0H 00M 00s", recording will stop automatically.
 - The tape will continue running in the Play mode.

Notes:

- Do not use the STOP button to stop insert editing. If you press the STOP button, the tape stops and the Insert Edit mode is cancelled.
- If you wish to stop insert editing before the specified edit-out point is reached, press the C. RESET button. Then the Play mode will be entered.
- Insert editing is also possible without determining the edit-out point. Simply start insert editing at the edit-in point and, where you wish to stop insert editing, press the PAUSE/STILL button. Since this recorder incorporates a flying erase head, even this simplified procedure makes clean edits, though there may be a slight discrepancy between the actual and intended edit points.
- The recording mode (SP or LP) is automatically determined by the previous recording on which the new segment is inserted regardless of the setting of the SP/LP button.
- If the edit start point of the new scene lies in the SP mode and the edit end point of the same scene lies in the LP mode or vice versa, the inserted picture will distort at the switching point in the recording mode.
- If there is a non-recorded section on the tape, the Insert Edit mode will be cancelled automatically and the Play mode will be engaged.
- Insert editing is not possible with non-recorded cassettes or cassettes whose safety tab has been removed.

IN CASE OF DIFFICULTY

ENGLISH

What may initially appear to be trouble is not always a real problem. Make sure first ...

POWER AND TAPE TRANSPORT PROBLEMS

| Symptoms | Check points |
|--|---|
| No power is applied to the recorder. | <ul style="list-style-type: none"> ● Is the power cord disconnected? — Connect it. |
| Clock is functioning properly, but the recorder cannot be powered. | <ul style="list-style-type: none"> ● Is the TIMER indicator lit on the FDP? — Press TIMER to disengage the Timer Recording Standby mode. |
| Tape does not run during recording. | <ul style="list-style-type: none"> ● Is the PAUSE/STILL button engaged? — Press the PLAY button. |
| Tape stops in the Rewind or Fast-Forward mode. | <ul style="list-style-type: none"> ● Is the C. MEMORY is pressed so that "M" appears on the FDP? — Press to make "M" disappear. |
| Tape will not rewind or fast forward. | <ul style="list-style-type: none"> ● Is the tape already fully rewound or fast forwarded? — Check the cassette. |

RECORDING PROBLEMS

| Symptoms | Check points |
|--------------------------------------|---|
| Recording cannot be started. | <ul style="list-style-type: none"> ● Is a cassette loaded? ● Is the safety tab on the cassette removed? — Reseal the slot with cellophane tape. |
| Camera recording is not possible. | <ul style="list-style-type: none"> ● Are the camera and the camera adapter correctly connected? ● Is the power switch of the camera adapter set to ON? ● Does the channel display indicate "AU"? — Turn the JOG dial to obtain "AU" on the FDP. (First press CH/SET.SELECT when you use the remote control.) |
| Simulcast recording is not possible. | <ul style="list-style-type: none"> ● Has the SIMUL button been pressed? — Press it so "SC" appears on the FDP. ● Is an audio source correctly connected to the AUDIO IN connectors? — Check connections. |
| Timer recording is not possible. | <ul style="list-style-type: none"> ● Have you set the clock correctly and programmed the timer correctly? — Check once again. ● Is the TIMER indicator lit on the FDP? — Press TIMER. |

PLAYBACK PROBLEMS

| Symptoms | Check points |
|---|--|
| Playback picture does not appear while the tape is running | <ul style="list-style-type: none"> ● Is the TV receiver's channel selector set to the correct video channel? — Set it to the RF converter channel. (See page 12.) ● If you are using AV connection, is the television engaged in the AV mode? — Operate the television's mode. |
| Playback is repeated. | <ul style="list-style-type: none"> ● Is the REPEAT switch set to either "FULL" or "INDEX"? — Set it to "OFF". |
| Noise appears during playback. | <ul style="list-style-type: none"> ● Is the automatic tracking mode engaged? — Engage the manual tracking mode. (See page 23.) |
| Playback picture is blurred or interrupted while TV broadcasts are clear. | <ul style="list-style-type: none"> ● Video heads may be dirty. — Head cleaning is necessary. Consult your JVC dealer. |

HI-FI AUDIO PROBLEMS

| Symptoms | Check points |
|---|---|
| TV sound cannot be recorded on hi-fi audio track. | <ul style="list-style-type: none"> ● Has the SIMUL button been pressed? — Press it again so "SC" no longer appears on the FDP. |
| Soundtrack on the hi-fi audio track cannot be reproduced. | <ul style="list-style-type: none"> ● Is the NORM indicator lit? — Press the MIX button for Hi-Fi L and R to light as required. |

OTHERS

| Symptoms | Check points |
|--|--|
| Whistling or howling is heard from TV. | <ul style="list-style-type: none"> ● Move camera or microphone away from TV or reduce TV sound volume. |
| Some channels are skipped over when selecting a channel. | <ul style="list-style-type: none"> ● Those channels are preset to be skipped over. If you need them, restore them. (See page 18.) |
| Channel cannot be switched. | <ul style="list-style-type: none"> ● Is recording in progress? — Press PAUSE/STILL, select a desired channel and press PLAY. |
| The recorder cannot be operated with the remote control. | <ul style="list-style-type: none"> ● Batteries are discharged. — Replace with new one. ● Is the A/B CODE indicator showing the proper code for the recorder being operated? — Press the A/B CODE button to switch the remote control to the correct setting. |
| Index Search does not function properly. | <ul style="list-style-type: none"> ● Adjacent index codes may be too close to each other. — Erase some index codes and mark new ones, if necessary, with sufficient distance between two index codes. |

This recorder contains microcomputers. External electronic noise or interference could cause malfunctioning. In such cases, switch the power off and unplug the power cord. Then plug it in again and switch on. Take out the cassette. After checking the cassette, operate the unit as usual.

HEAD CLEANING

- Picture playback may become blurred or interrupted while the TV programme received is clear. This does not mean that the recorded programme has been erased.
- Dirt accumulated on the video heads after long periods of use causes such problems. In this case, head cleaning requiring highly technical care is necessary.

For head cleaning, consult the nearest JVC dealer.



SPECIFICATIONS

ENGLISH

GENERAL

| | |
|------------------------|--|
| Power requirement | : AC 220 V~, 50/60 Hz |
| Power consumption | : 40 W |
| Temperature | : 5°C to 40°C (Operating) : -20°C to 60°C (Storage) |
| Operating position | : Horizontal only |
| Dimensions (WxHxD) | : 435 x 102 x 390 mm |
| Weight | : 7.0 kg |
| Format | : S-VHS/VHS PAL standard |
| Tape width | : 12.65 mm |
| Tape speed (SP) | : 23.39 mm/sec |
| (LP) | : 11.70 mm/sec |
| Maximum recording time | |
| (SP) | : 240 min. with E-240 video cassette |
| (LP) | : 480 min. with E-240 video cassette |

VIDEO

| | |
|-----------------------|--|
| Signal system | : PAL colour and separated Y/C signals, 625 lines/50 fields |
| Recording system | : Rotary two-head helical scan system with slant double-azimuth combination video heads |
| Input | : 0.5 to 2.0 Vp-p, 75 ohms, unbalanced |
| Output | : 1.0 Vp-p, 75 ohms, unbalanced |
| Signal-to-noise ratio | : 43 dB (Rohde & Schwarz noise meter) with PICTURE SHARPNESS control at centre position |
| Horizontal resolution | : More than 400 lines (S-VHS)/ 250 lines (VHS) with PICTURE SHARPNESS control at centre position |

AUDIO

| | |
|--------|---|
| Input | : Mic:-67 dBs, high impedance, unbalanced |
| | : AUDIO IN connector (RCA x 2): -8 dBs, more than 50 k-ohms, unbalanced |
| | : AUDIO/VIDEO socket (21-pin Peri connector):-3.8 dBs, (CENELEC standard), 10 k-ohms, unbalanced |
| Output | : AUDIO/VIDEO socket (21-pin Peri connector):-3.8 dBs, (CENELEC standard), high-impedance load |
| | : AUDIO OUT connector (RCA x 2): -6 dBs, high-impedance load less than 1 k-ohm, unbalanced (100 k-ohms, load) |

NORMAL AUDIO

| | |
|-----------------------|----------------------|
| Recording system | : Longitudinal track |
| No. of audio channels | : 1 (monaural) |
| Frequency range | : 70 Hz to 10,000 Hz |

HI-FI AUDIO

| | |
|-----------------------|---|
| Recording system | : Deep-layer recording system conforming to stereo Hi-Fi VHS standard |
| No. of audio channels | : 2 Hi-Fi audio channels |
| Frequency response | : 20 Hz to 20,000 Hz |
| Dynamic range | : More than 90 dB |
| Wow and flutter | : Less than 0.005% WRMS |

TUNER

| | |
|-----------------------------|---|
| Tuning system | : Frequency synthesized tuner |
| TV channel storage capacity | : 48 positions (+ AUX position "AU") |
| Channel coverage | : VHF 47 - 111 MHz 111 - 300 MHz 302 - 470 MHz UHF 470 - 862 MHz |
| Aerial output | : UHF channel 36 (adjustable 32 - 40) |

TIMER

| | |
|---------------------|----------------------------|
| Clock reference | : Quartz-crystal |
| Programme capacity | : 1-year/8-programme timer |
| Memory back-up time | : 60 min. |

ACCESSORIES

| | |
|----------------------|---|
| Provided accessories | : Aerial cable, Infrared remote control unit, "R6" battery x 4, Audio cable (RCA-RCA), S-Video cable (4-pin/4-pin), S-VHS cassette tape (SE-180) |
| Optional accessories | : VPS adapter VU-V110E VPV adapter VU-V120E VPS/VPV adapter VU-V100E VPT adapter VU-V140E VPS/VPT adapter VU-V150E RGB signal converter KM-V7EG |

*Specifications shown are for SP mode unless otherwise specified.
Design and specifications subject to change without notice.*

TELETEXT COMPATIBILITY

ENGLISH

Teletext services are becoming popular and a vast number of teletext pages are now available for a variety of information. This recorder is ready to take advantage of these services, not only for simple viewing but also for programming the recorder's built-in timer in an extremely easy way. All you need to do is connect the optional VPT or VPV adapter to the rear of the recorder. Then the recorder's remote control exhibits its full capability with all the dual or triple-function control keys working as intended. The following information shows examples of using the optional VPT adapter.

TELETEXT

- View broadcast teletext pages.
- Several page access modes are available for quick and convenient viewing.
- Programme the timer using TV schedule pages.

| | |
|-------------|---|
| PR. 3 194 | DI. 25. 12. 90 16 : 05 : 46 |
| TEXT | DIENSTAG 25. Dez. 1990 |
| HEUTE ABEND | |
| 20. 00 | Tageschau 222 |
| 20. 15 | Caprice |
| 21. 50 | Amerik. Spielfilm 223 |
| 22. 30 | Plusminus 224 |
| 22. 30 | Tagesthemen 225 |
| 23. 00 | Neu: Parteien zur Wahl |
| 23. 30 | Die Sportschau 226 |
| 23. 55 | Heut' abend |
| | Gast: Elke Sommer 227 |
| 00. 40 | Das süße linke Leben 228 |
| 01. 40 | Tageschau bis ca. 01. 55 Testtafel)) |
| SERIAL | 194 195 196 197 |

PROGRAM

- Check the timer recording data on the colour display.
- Programme the timer manually with 10-key input.

| PROGRAM | | | | | | TVPR. 5 |
|-------------------|-------|-------|---------|-----|-------|---------|
| NO. | START | STOP | * DATE | PR. | SP/LP | |
| 1 | 11:00 | 12:00 | 26.08 | 5 | SP | |
| 2 | --- | --- | --- | --- | SP | |
| 3 | --- | --- | --- | --- | SP | |
| 4 | --- | --- | --- | --- | SP | |
| TOTAL TIME | | | | | 1:00 | |
| PROCESS | | | BUTTON | | | |
| TO NEXT PROG. NO. | | | PROGRAM | | | |
| TEXT - PROGRAM | | | PAGE - | | | |
| MOVE CURSOR | | | < - > | | | |
| TO MENU SCREEN | | | MENU | | | |

MENU

1. - - - - TELETEXT
2. - - - - PROGRAM
3. - - - - PAGE SET
4. - - - - INITIAL SET
5. - - - - VPT WITH TOP

| | |
|---------------|--------|
| PROCESS | BUTTON |
| TO EACH MODE | 1 - 5 |
| TO TV PICTURE | MENU |

PAGE SET

- Preset teletext pages so that you can quickly access your favourite or frequently-referred-to pages.
- Four pages can be preset for each of the keys, 0 to 9, totalling 40 pages.

INITIAL SET

LANGUAGE

- Select one of four languages (English, German, Italian or Swedish) for on-screen messages.

CLOCK ADJUST

- Set the VCR's clock manually with 10-key input.
- Automatic clock setting by reading time information from teletext pages.

VPT WITH TOP

- TOP automatic teletext timer programming.
 - * "5. - - - - VPT WITH TOP" appears only when the VCR's tuner is tuned to a station which is transmitting TOP broadcasts. (Applicable only in certain areas.)