JVC

VIDEO CASSETTE RECORDER

SR-V10U
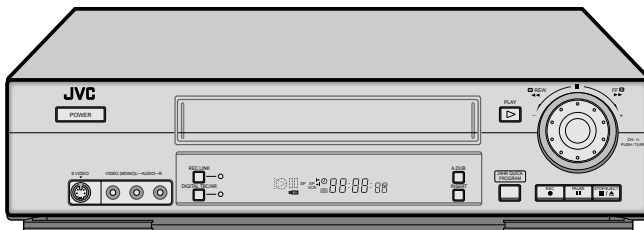
S VHS

Hi-Fi

VCR plus+ ®

Super VHS ET

Professional series

INSTRUCTIONS

Dear Customer,
Thank you for purchasing the JVC S-VHS video cassette recorder. Before use, please read the safety information and precautions contained in the following pages to ensure safe use of your new VCR.

CAUTIONS

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK.
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

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

CAUTION:
This video cassette recorder should be used with AC 120V$\sim$, 60Hz only.
To prevent electric shocks and fire hazards, DO NOT use any other power source.

CAUTION:
TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

ATTENTION:
POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

Note to CATV system installer:
This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

CAUTION:
Changes or modifications not approved by JVC could void user's authority to operate the equipment.

Caution on Replaceable lithium battery
The battery used in this device may present a fire or chemical burn hazard if mistreated. Do not recharge, disassemble, heat above 100°C or incinerate.
Replace battery with Panasonic (Matsushita Electric), Sanyo, Sony or Maxell CR2025. Danger of explosion or Risk of fire if the battery is incorrectly replaced.
- Dispose of used battery promptly.
- Keep away from children.
- Do not disassemble and do not dispose of in fire.

Declaration of Conformity
Model Number	:SR-V10U
Trade Name	:JVC
Responsible Party	:JVC Americas Corp.
Address	:1700 Valley Road Wayne, N.J. 07470
Telephone Number	:973-315-5000

This device complies with Part 15 of FCC Rules.
Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Failure to heed the following precautions may result in damage to the VCR, Remote or video cassette.
1. **DO NOT** place the VCR . . .
   ... in an environment prone to extreme temperatures or humidity.
   ... in direct sunlight.
   ... in a dusty environment.
   ... in an environment where strong magnetic fields are generated.
   ... on a surface that is unstable or subject to vibration.
2. **DO NOT** block the VCR's ventilation openings.
3. **DO NOT** place heavy objects on the VCR or on the Remote.
4. **DO NOT** place anything which might spill on the top of the VCR or on the Remote.
5. **AVOID** violent shocks to the VCR during transport.

VCR Plus+ and PlusCode are registered trademarks of Gemstar Development Corporation.
The VCR Plus+ system is manufactured under license from Gemstar Development Corporation.

- 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".
  By using S-VHS ET it is possible to record and play back with S-VHS picture quality on VHS cassettes with this VCR.
- As an ENERGY STAR® Partner, JVC has determined that this product or product model meets the ENERGY STAR® guidelines for energy efficiency.

IMPORTANT PRODUCT SAFETY INSTRUCTIONS

Electrical energy can perform many useful functions. But improper use can result in potential electrical shock or fire hazards. This product has been engineered and manufactured to assure your personal safety. In order not to defeat the built-in safeguards, observe the following basic rules for its installation, use and servicing.

ATTENTION:

Follow and obey all warnings and instructions marked on your product and its operating instructions. For your safety, please read all the safety and operating instructions before you operate this product and keep this booklet for future reference.

INSTALLATION

1. Grounding or Polarization
(A) Your product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature.
If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
(B) Your product may be equipped with a 3-wire grounding-type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature.
If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.

2. Power Sources
Operate your product only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. If your product is intended to operate from battery power, or other sources, refer to the operating instructions.

3. Overloading
Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

4. Power Cord Protection
Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

5. Ventilation
Slots and openings in the cabinet are provided for ventilation. To ensure reliable operation of the product and to protect it from overheating, these openings must not be blocked or covered.
• Do not block the openings by placing the product on a bed, sofa, rug or other similar surface.
• Do not place the product in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

6. Wall or Ceiling Mounting
The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

## ANTENNA INSTALLATION INSTRUCTIONS

1. Outdoor Antenna Grounding
If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

2. Lightning
For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

3. Power Lines
An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE, ANSI/NFPA 70
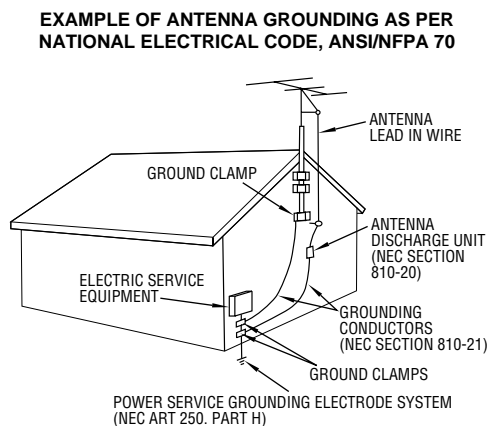
NEC – NATIONAL ELECTRICAL CODE

USE

1. Accessories
To avoid personal injury:
- Do not place this product on an unstable cart, stand, tripod, bracket, or table. It may fall, causing serious injury to a child or adult, and serious damage to the product.
- Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the product.
- Use a mounting accessory recommended by the manufacturer and follow the manufacturer's instructions for any mounting of the product.
- Do not try to roll a cart with small casters across thresholds or deep-pile carpets.

2. Product and Cart Combination
A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

**PORTABLE CART WARNING
(Symbol provided by RETAC)**

3. Water and Moisture
Do not use this product near water—for example, near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement, or near a swimming pool and the like.

4. Object and Liquid Entry
Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

5. Attachments
Do not use attachments not recommended by the manufacturer of this product as they may cause hazards.

6. Cleaning
Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

7. Heat
The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

SERVICING

1. Servicing
If your product is not operating correctly or exhibits a marked change in performance and you are unable to restore normal operation by following the detailed procedure in its operating instructions, do not attempt to service it yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

2. Damage Requiring Service
Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
a. When the power supply cord or plug is damaged.
b. If liquid has been spilled, or objects have fallen into the product.
c. If the product has been exposed to rain or water.
d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
e. If the product has been dropped or damaged in any way.
f. When the product exhibits a distinct change in performance—this indicates a need for service.

3. Replacement Parts
When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or which have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

4. Safety Check
Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in safe operating condition.

HOW TO USE THIS INSTRUCTION MANUAL

- The Index on pages 58 – 62 lists frequently-used terms, and the number of the page on which they are used or explained in the manual. This section also illustrates the controls and connections on the front and rear panel, the front display panel and the Remote.
- The ☞ mark signals a reference to another page for instructions or related information.
- Operation buttons necessary for the various procedures are clearly indicated through the use of illustrations at the beginning of each major section.
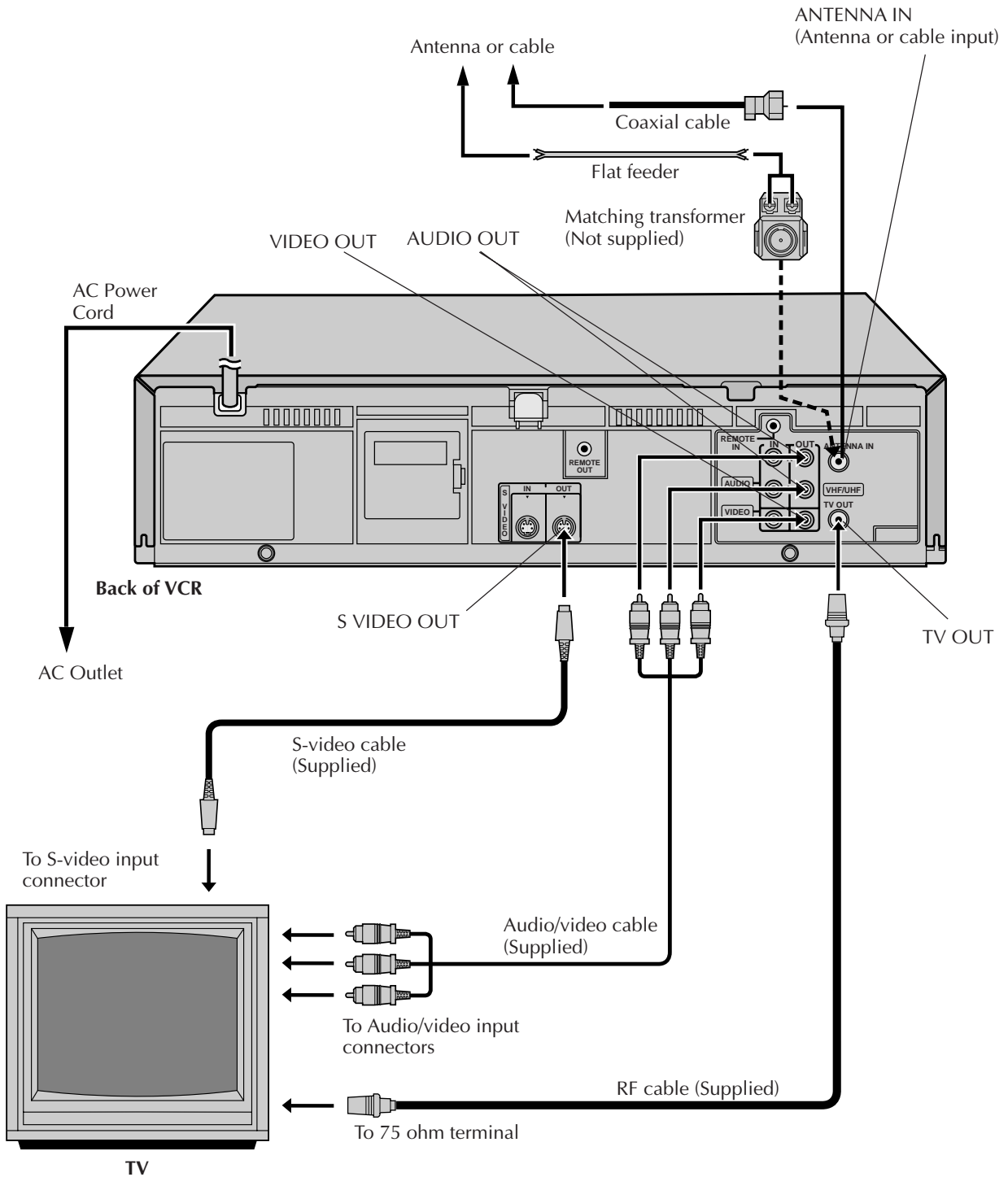
BEFORE YOU INSTALL YOUR NEW VCR . . .

. . . please read the sections/literature listed below.
- "CAUTIONS" on page 2
- "IMPORTANT PRODUCT SAFETY INSTRUCTIONS" on the previous page

Basic Connections

ANTENNA IN
(Antenna or cable input)

Antenna or cable

Coaxial cable

Flat feeder

Matching transformer
(Not supplied)

VIDEO OUT   AUDIO OUT

AC Power
Cord

REMOTE
IN   OUT   ANTENNA IN

REMOTE
OUT

S
VIDEO   IN   OUT

AUDIO   VHF/UHF

VIDEO   TV OUT

Back of VCR

S VIDEO OUT

TV OUT

AC Outlet

S-video cable
(Supplied)

To S-video input
connector

Audio/video cable
(Supplied)

To Audio/video input
connectors

RF cable (Supplied)

To 75 ohm terminal

TV

Check contents

Make sure the package contains all of the accessories listed in "SPECIFICATIONS" (☞ pg. 63).

Situate VCR

Place the VCR on a stable, horizontal surface.

Connect VCR to TV

The following connections are required.

RF Connection

❶ Disconnect the TV antenna from the TV.
❷ Connect the TV antenna cable to the ANTENNA IN terminal on the rear of the VCR.
❸ Connect the supplied RF cable between the TV OUT terminal on the rear of the VCR and the TV's antenna input terminal.

AV Connection (improves picture quality during tape playback.)

If your TV is equipped with audio/video input connectors

❶ Connect the antenna, VCR and TV as shown in the illustration.
❷ Connect an audio/video cable between the AUDIO/VIDEO OUT connectors on the rear of the VCR and the audio/video input connectors on the TV.

S-video Connection (allows you to make the most of the S-VHS picture performance.)

If your TV is equipped with an S-video input connector

❶ Perform "RF Connection" and RED/WHITE AUDIO connections.
❷ Connect an S-video cable between the S VIDEO OUT connector on the rear of the VCR and the S-video input connector on the TV.

Connect VCR to power source

Connect the AC power plug to an AC outlet.

● The clock and tuner channels will automatically be set when the antenna is connected and when the AC power cord is first connected to an AC power outlet (☞ pg. 8). (If "Auto" or "CH" is displayed on the front display panel before the VCR is turned on, the clock and tuner channels are being set automatically. Wait until the clock time is displayed on the front display panel before turning on the VCR.)

Set VCR channel

Press **POWER** to turn off the VCR and press **STOP/ EJECT (■/⏏)** on the front panel for more than 5 seconds. "3CH" appears on the display panel. Press **CH +** and **–** on the Remote to select "3CH" or "4CH" for only RF connection, "–CH" (OFF) for RF and AV connection, then press **OK**.
● The VCR channel is preset to 3CH. Set to 4CH if 3CH is used for broadcasting in your area. (To view the picture from this VCR through this channel, select the same channel on the TV with the VCR channel setting on the VCR.)
● You can now perform basic playback (☞ pg. 15) or basic recording (☞ pg. 19).

NOTES:

● *The VCR channel is the channel on which you can watch the picture from the VCR on the TV when only using the RF connection.*
● *Even if you are using audio/video cables to connect your VCR to your TV, you must also connect it using the RF cable. This will ensure that you can record one show while watching another (☞ pg. 21).*
● *For full identification of the VCR's rear panel, refer to the Index (☞ pg. 61).*

Be sure to connect the power plug to an AC outlet first before installing the lithium battery; otherwise, the battery's service life will be drastically shortened.
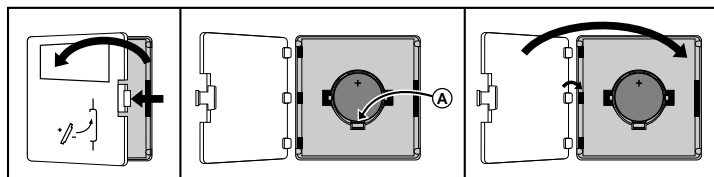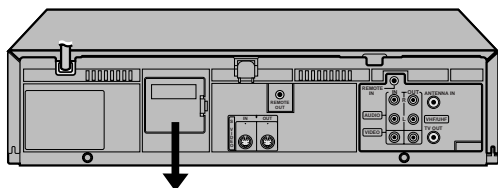
Installing/Removing the lithium battery

1 Make sure that the power plug is connected to an AC outlet and turn off the VCR power.
2 Open the battery cover while pressing the release tab as illustrated.
3 Insert a lithium battery with the plus (+) side up and push it in.
  ● To remove the lithium battery, press the latch Ⓐ downward using a pointed non-metallic object, then pull out the lithium battery.
4 Close the battery cover until it clicks in place.

Plug & Play Setting

Auto Clock Set/Auto Tuner Set

ATTENTION
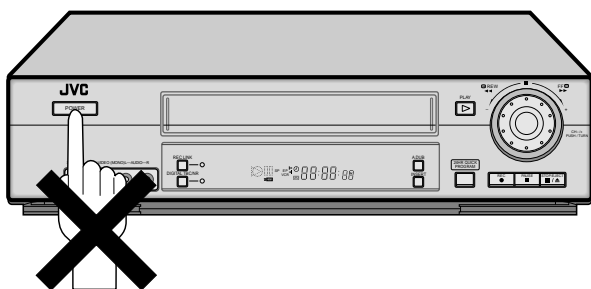● If you use a cable box, Plug & Play will not function; set the clock and tuner channels separately. (☞ pg.10 – 14)
● It takes several minutes for the VCR to complete the Plug & Play setting.
● Do not press any buttons on the front panel or on the Remote while Plug & Play is in progress.

This VCR sets the clock and tuner channels automatically when AC power cord is first connected to an AC outlet. The antenna cable must be connected for the Plug & Play setting.
The time and date can be set automatically by the clock setting data transmitted from one of the regular TV broadcast channels. We call this TV channel the "host channel" and it is a PBS channel in your area.

Perform Plug & Play setup
Connect the antenna cable to the VCR (☞ pg. 6). Then connect the AC power cord to an AC outlet. Do not turn on the VCR.
The clock and tuner channels will be set automatically.

NOTES:
● *Auto Clock Set is performed first.*
  "Auto" blinks on the front display panel during Auto Clock Set.
● *Auto Channel Set is performed next. Auto Channel Set scans all the channels that are receivable by your VCR. During Auto Channel Set, the channel numbers are displayed as they are scanned and set.*
● *When Plug & Play setting has been complete successfully, the correct clock time is displayed. If you perform Plug & Play setting successfully, there is no need to perform the clock (☞ pg. 10) and tuner (☞ pg. 13) settings. If, however, you want to add or delete channels, refer to Manual Channel Set on page 14.*

During Initial Auto Clock Set
"Auto" blinks.

During Auto Channel Set
The channel numbers are displayed as they are scanned and set.

Plug & Play Completed
The current time (including AM/PM) is displayed.
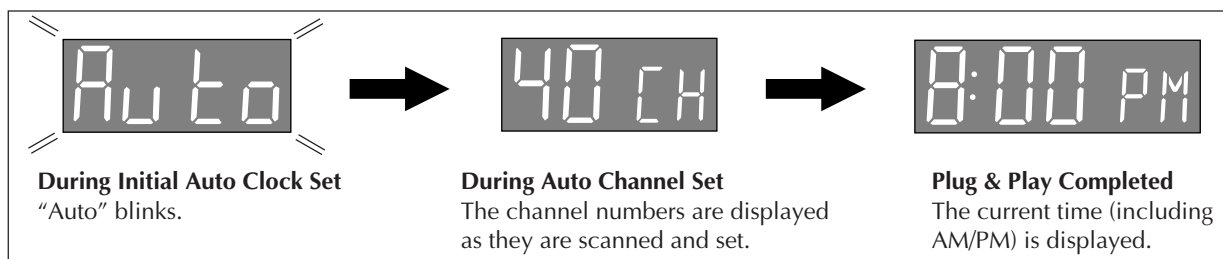
* **If an incorrect clock time or "– –:– –" appears on the display panel, see "What to do if Plug & Play setting failed" below.**

INFORMATION

- If "AUTO CLOCK" is set to "ON" on the Clock Set screen on page 11, the clock will be adjusted automatically by the host channel every hour (except 11:00 PM, midnight, 1:00 AM and 2:00 AM) using the incoming PBS channel clock setting data. (This automatic clock adjustment can only be performed when the VCR is turned off. The clock will be adjusted just on these hours — on the time displayed on the front display panel, not on the actual real time.)
The default setting of "AUTO CLOCK" is "ON".
- If the memory backup fails, because a power outage occurs or because the AC power cord is unplugged, Plug & Play will be performed when power is restored to the VCR.
- Poor antenna or cable signal may prevent the VCR from receiving the Auto clock setting data from the PBS channel. If this function is taking a considerable amount of time, it may be necessary to perform the Semiauto or Manual Clock Set procedure.

What to do if Plug & Play setting failed

- If an incorrect time is displayed on the front display panel, you may be receiving the clock setting data of a PBS channel from an adjacent time zone, or an incorrect PBS channel from a cable TV system. In this case, perform the Semiauto (☞ pg. 11) or Manual Clock Set (☞ pg. 12) procedure.
- If "- -:- -" appears on the front display panel, your antenna cable may not be connected to the VCR or there may not be a Host PBS signal available in your area. Ensure that the antenna cable is connected correctly. Then turn on and off the VCR; the Plug & Play setting will be automatically reactivated.
If Plug & Play setting is not performed though the antenna cable is connected correctly, perform Manual Clock Set (☞ pg. 12) and Auto Channel Set or Manual Channel Set (☞ pg. 13 or 14).

Last-Function Memory

When the AC is removed from the VCR or when the power failure occurs, your settings for the following functions are kept in memory. These settings will resume when the VCR is turned on again.

- a- Input Selection (channel or auxiliary input; L-1 or F-1)
- b- Recording tape speed (☞ pg. 19)
- c- "ON SCREEN (REC)" (☞ pg. 37, 38)
- d- "ON SCREEN (PLAY)" (☞ pg. 37, 39)
- e- "RETURN POINT" (☞ pg. 37, 41)
- f- "DAY/TIME INSERT" (☞ pg. 37, 41)
- g- "REC SAFETY" (☞ pg. 37, 41)

Clock Setting

Turn on the VCR and the TV, and select the VCR channel 3 or 4 (or AV mode) on the TV.

Perform clock setting only if the clock has not been set correctly by the Plug & Play setting or if you use a cable box.
Access the Clock Set screen to perform the Semiauto or Manual Clock Set. Each procedure starts from step ■ after preparation steps below are finished.
If you use a cable box, set the clock manually. (☞ pg. 12)

Preparations

Access Main Menu screen
Press **MENU**.

Access Initial Set screen
Press **SHUTTLE PLUS** △▽ to move the highlight bar (arrow) to "INITIAL SET", then press **OK** or **SHUTTLE PLUS** ▷.

```
        MAIN MENU

     FUNCTION SET
     TUNER SET
   → INITIAL SET


   PRESS (▲,▼), THEN (OK)
   PRESS (MENU) TO END
```
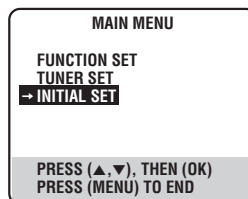
Select clock set
Press **SHUTTLE PLUS** △▽ to move the highlight bar (arrow) to "CLOCK SET", then press **OK** or **SHUTTLE PLUS** ▷.

```
        INITIAL SET

   → CLOCK SET
     GUIDE CHANNEL SET


   SELECT WITH (▲,▼) AND (OK)
   PRESS (MENU) TO END
```

JVC
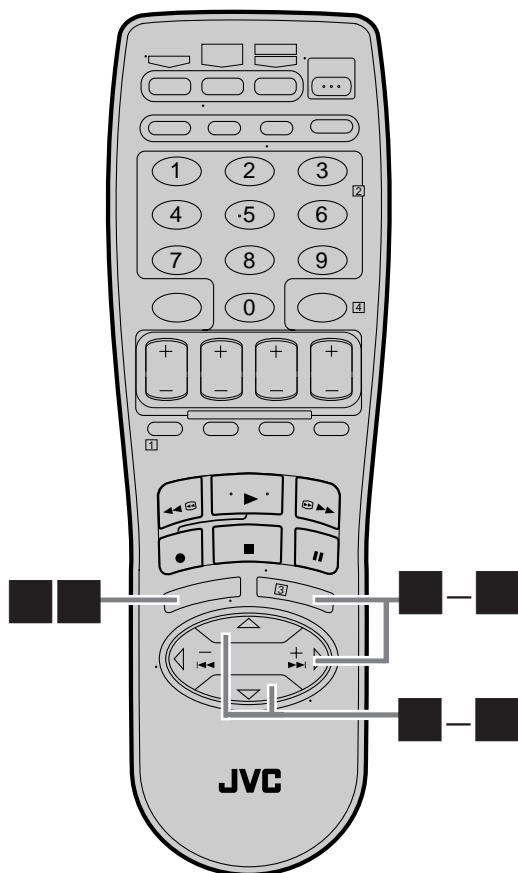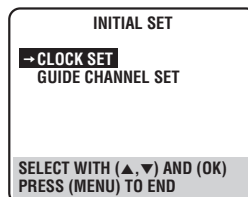
Setting clock semiautomatically
— Semiauto Clock Set

You can change the host channel/D.S.T. /time zone setting manually.
First follow steps ■ to ■ on page 10, then go to the following steps.

■ Set Auto Clock to ON

Press **SHUTTLE PLUS** ▷ to move the highlight bar to "AUTO CLOCK", then press **SHUTTLE PLUS** △▽ so that "ON" is selected.

```
        CLOCK SET

TIME      DATE  YEAR
  1:00PM  12/24 ╱ 02  TUE
AUTO CLOCK : ON
HOST CH    : AUTO  (CATV)
D.S.T.     : AUTO
TIME ZONE  : AUTO
PRESS (▲,▼), THEN (OK)
PRESS (MENU) TO END
```

Then;
To select the host channel — go to step ■.
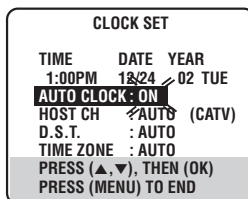To select the D.S.T. mode — go to step ■.
To select the time zone — go to step ■.

NOTE:
The time set previously will be erased when "AUTO CLOCK", "HOST CH", "D.S.T." or "TIME ZONE" setting is changed.

■ Select host channel

You can either select "AUTO" or enter a PBS channel number.
Press **SHUTTLE PLUS** ▷ to move the highlight bar to "HOST CH", then press **SHUTTLE PLUS** △▽ until "AUTO" or the desired PBS channel number is selected.

NOTE:
Some PBS channels do not transmit clock setting data.

■ Select D.S.T. mode

You have three choices:
AUTO– Select if you want to adjust your VCR's clock automatically by the incoming signal from the host channel. (Auto Daylight Saving Time*)
ON– Adjustment will be made by the built-in clock itself.
OFF– Select when Daylight Saving Time does not apply to you.
Press **SHUTTLE PLUS** ▷ to move the highlight bar to "D.S.T.", then press **SHUTTLE PLUS** △▽ repeatedly until the desired setting is selected.

■ Select time zone

You can select the time zone automatically or manually.
Press **SHUTTLE PLUS** ▷ to move the highlight bar to "TIME ZONE", press **SHUTTLE PLUS** △▽ repeatedly until "AUTO" or the desired time zone is selected.
Each time you press the button, the time zone changes as follows:

➝ AUTO ➝ ATLANTIC ➝ EASTERN

➝ CENTRAL ➝ MOUNTAIN ➝ PACIFIC

➝ ALASKA ➝ HAWAII ➝ (back to the beginning)

NOTE:
If an incorrect clock time is displayed by the Plug & Play setting, you may be receiving the clock setting data of a PBS channel from an adjacent time zone or from an incorrect PBS channel from a cable TV system. If you selected "AUTO" for the host channel in step ■, be sure to select the correct time zone manually.

■ Return to normal screen
Press **MENU**.

* Auto Daylight Saving Time
This function enables automatic adjustment of the VCR's clock at the start and end of Daylight Saving Time.
With Auto DST activated, . . .
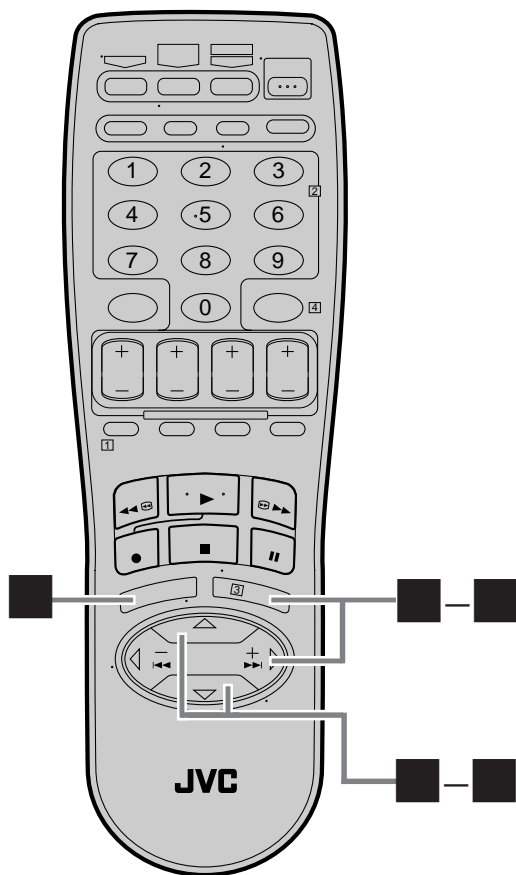*. . .   on the first Sunday of April at 2:00 AM, the clock is adjusted to 3:00 AM.*
. . .   on the last Sunday of October at 2:00 AM, the clock is adjusted to 1:00 AM.

IMPORTANT
Turn off the VCR after performing Semiauto Clock Set. "Auto" will appear on the front display panel while the clock is being set. The current clock time will appear automatically when the clock setting is complete.

■ **Set date**

Press **SHUTTLE PLUS** △▽ until the desired date appears, then press **OK** or **SHUTTLE PLUS** ▷.

● Holding **SHUTTLE PLUS** △▽ changes the date in 15-day intervals.

■ **Set year**

Press **SHUTTLE PLUS** △▽ until the desired year appears, then press **OK** or **SHUTTLE PLUS** ▷ twice.

■ **Select D.S.T. mode**

You can select either "ON" or "OFF".
ON– Adjustment will be made by the built-in clock itself.
OFF– Select when Daylight Saving Time does not apply to you.

Press **SHUTTLE PLUS** △▽ to select the desired setting.

■ **Start clock**

Press **MENU** and normal screen appears.

To make corrections any time during the process

Press **OK** or **SHUTTLE PLUS** ▷ repeatedly until the item you want to change blinks, then press **SHUTTLE PLUS** △▽.

Setting clock manually

— Manual Clock Set

First follow steps ■ to ■ on page 10, then go to the following steps.

■ **Set time**

Press **SHUTTLE PLUS** △▽ until the desired time appears, then press **OK** or **SHUTTLE PLUS** ▷.

```
         CLOCK SET

  TIME      DATE  YEAR
  --:--AM   1/ 1  02
  AUTO CLOCK : ON
  HOST CH    : AUTO  (CATV)
  D.S.T.     : AUTO
  TIME ZONE  : AUTO
  PRESS (▲,▼), THEN (OK)
  PRESS (MENU) TO END
```
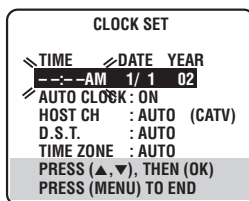
● Holding **SHUTTLE PLUS** △▽ changes the time in 30-minute intervals.
● When the time is entered manually, "AUTO CLOCK" is automatically set to "OFF", and "HOST CH" and "TIME ZONE" disappear.

Tuner Setting

Turn on the VCR and the TV, and select the VCR channel 3 or 4 (or AV mode) on the TV.
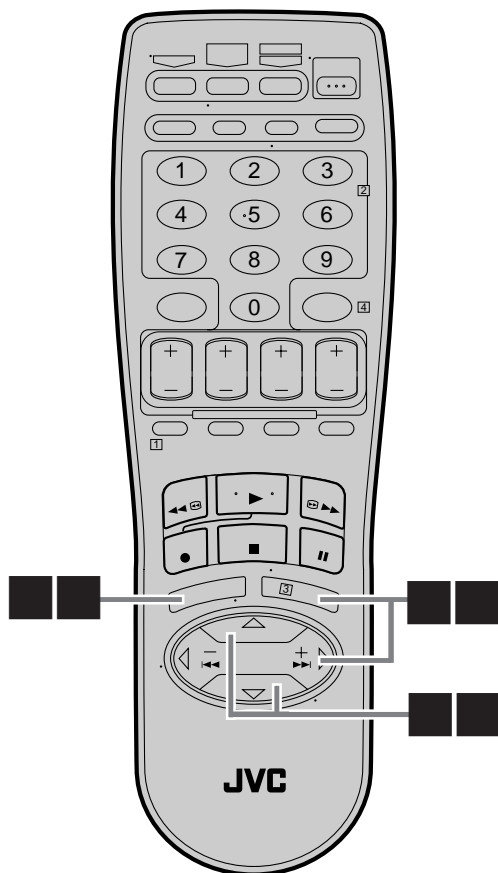
Setting channels automatically — **Auto Channel Set**

Use Auto Channel Set only if channels have not been set correctly by the Plug & Play setting. If you want to add or delete channels, use Manual Channel Set (☞ pg. 14).

■ Access Main Menu screen
Press **MENU**.

■ Access Tuner Set screen
Press **SHUTTLE PLUS** △▽ to move the highlight bar (arrow) to "TUNER SET", then press **OK** or **SHUTTLE PLUS** ▷.

```
        MAIN MENU

    FUNCTION SET
  → TUNER SET
    INITIAL SET


  PRESS (▲,▼), THEN (OK)
  PRESS (MENU) TO END
```
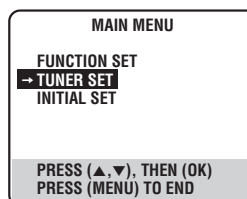
■ Perform Auto Channel Set
You can automatically set the receivable channels in your area in the order of their frequencies.
Press **SHUTTLE PLUS** △▽ to move the highlight bar (arrow) to "AUTO CHANNEL SET", then press **OK** or **SHUTTLE PLUS** ▷.

```
        TUNER SET

    BAND            CATV
  → AUTO CHANNEL SET
    MANUAL CHANNEL SET


  SELECT WITH (▲,▼) AND (OK)
  PRESS (MENU) TO END
```

```
      AUTO CHANNEL SET


        SCANNING…


  PRESS (MENU) TO END
```

NOTES:
● When Auto Channel Set is complete, "SCAN COMPLETED" appears on screen.
● If the scan was unsuccessful, "SCAN COMPLETED– NO SIGNAL" appears on screen. Check the connections and start again.

■ Return to normal screen
Press **MENU**.

INFORMATION
The VCR selects the correct band (TV or CATV) automatically during Auto Channel Set.
The selected band will be displayed on the right side of "BAND" on the Tuner Set screen.

Access Tuner Set screen

Press **SHUTTLE PLUS** △▽ to move the highlight bar (arrow) to "TUNER SET", then press **OK** or **SHUTTLE PLUS** ▷.

Access Manual Channel Set screen

Press **SHUTTLE PLUS** △▽ to move the highlight bar (arrow) to "MANUAL CHANNEL SET", then press **OK** or **SHUTTLE PLUS** ▷.

```
         TUNER SET

BAND                    CATV
AUTO CHANNEL SET
→ MANUAL CHANNEL SET


SELECT WITH (▲,▼) AND (OK)
PRESS (MENU) TO END
```

Add or skip desired channels

To add channels

❶ Press the **Number** keys to input a channel number you want to add.

❷ Press **OK** or **SHUTTLE PLUS** ▷ to set to "ADD".

❸ Repeat ❶ and ❷ to add other channels.

```
    MANUAL CHANNEL SET

          (SAT)
      CH   45  ADD

PRESS NUMBER KEY (0–9)
   OR (▲,▼), THEN (OK)
PRESS (MENU) TO END
```
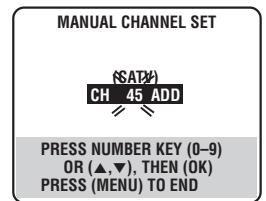
To skip channels

❶ Press the **Number** keys or **SHUTTLE PLUS** △▽ to input a channel number you want to skip.

❷ Press **OK** or **SHUTTLE PLUS** ▷ to set to "SKIP".

❸ Repeat ❶ and ❷ to skip other channels.

Return to normal screen

Press **MENU**.

JVC

Setting channels manually

— Manual Channel Set

You can add the channels you want or delete the channels you do not want manually.

Access Main Menu screen

Press **MENU**.

Basic Playback

Turn on the VCR and the TV, and select the VCR channel 3 or 4 (or AV mode) on the TV.

POWER

JOG dial

STOP/EJECT
(■ / ⏏)

POWER

REW (◄◄)

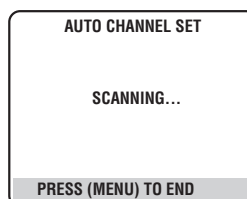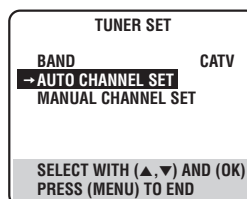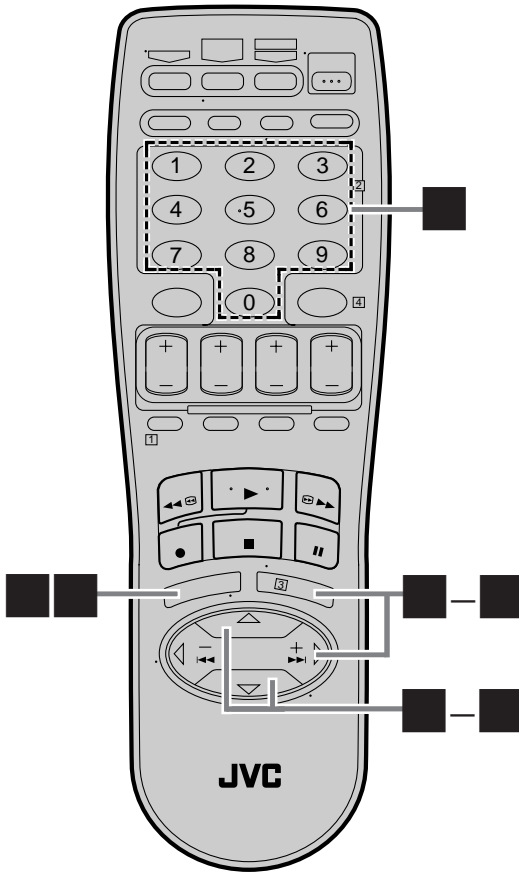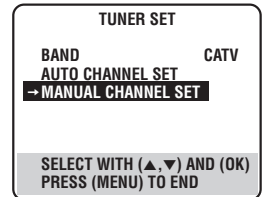FF (►►)

STOP (■)

To prohibit operations during playback (Mode Lock)
Press and hold **OK** on the Remote for more than 5 seconds. "➡" and "➡|" light up on the front display panel (☞ pg. 60). The playback will not be interrupted until the recording end (unrecorded portion) or tape end is reached (☞ pg. 37, 41).
To resume the other operations, press and hold **OK** on the Remote again for more than 5 seconds.

● When **OK** is pressed to set Mode Lock, the on-screen display appears and the time counter remains on the TV screen. If the time counter is not necessary, set "ON SCREEN (PLAY)" to "OFF" (☞ pg. 37, 39).

This VCR can check the tape condition during playback (and recording), and realizes the best possible pictures.

Load a cassette
Make sure the window side is up, the rear label side is facing you and the arrow on the front of the cassette is pointing towards the VCR.
Do not apply too much pressure when inserting.

● The VCR turns on automatically.
● The counter is automatically reset to "0:00:00".
● If the cassette's record safety tab has been removed and "REC SAFETY" is set to "ON", playback begins automatically.

Start playback
Press **PLAY (►)**.

● Tape speed (SP or EP) is automatically detected.
● The S-VHS indicator lights up on the front display panel when you play back a tape recorded in S-VHS mode or in S-VHS ET mode (☞ pg. 40)
● If "VIDEO CALIBRATION" is set to "ON" (default setting: ☞ pg. 37, 38), "VIDEO CALIBRATION" appears on the screen, and this VCR checks the tape condition during automatic tracking.
● If the tape ends during playback or fast-forward search, the cassette indication "▢▢" blinks for a few seconds and the VCR starts rewinding the tape automatically.

To stop playback
Press **STOP (■)** on the Remote or **STOP/EJECT (■ / ⏏)** on the front panel.

To rewind the tape (when it is not running)
Press **REW (◄◄)** (or turn the **JOG** dial on the front panel to the left).

To fast-forward the tape (when it is not running)
Press **FF (►►)** (or turn the **JOG** dial on the front panel to the right).

To eject the tape
Press **STOP/EJECT (■ / ⏏)** on the front panel when the tape is not running.
● You can also eject the cassette with the VCR turned off.

To turn off the VCR
Press **POWER**.

Clean the video heads using a dry cleaning cassette — TCL-2UX — when:
 • Rough, poor picture appears while a tape is played back.
 • The picture is unclear or no picture appears.
 • "USE CLEANING CASSETTE" appears on the screen (only with "ON SCREEN (PLAY)" set to "ON": ☞ pg. 37, 39.)

Basic Playback Features

STOP/EJECT
(■ / ▲)

F –b

A

E

C. RESET

F –c

D –2

D –1

F –a, b, c

C

F –a

STOP (■)

G
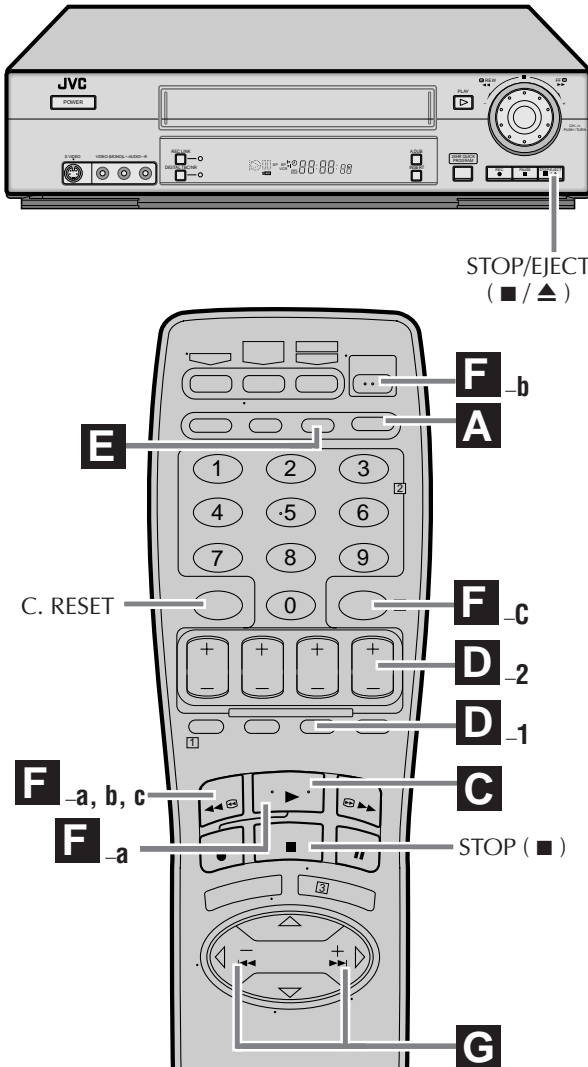
A Changing display information

Press DISPLAY during playback.
Each time you press the button, the front display panel
shows the time counter, tape remaining time and the
clock time in sequence.
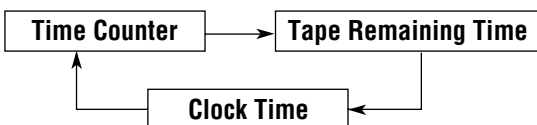
```
Time Counter  →  Tape Remaining Time
      ↑                     ↓
          Clock Time  ←
```

● To display the VCR status including the tape remaining
time, the time counter and the clock time on the TV
screen, see "Showing on-screen display" (☞ pg. 21).
● The approximate tape remaining time appears and the
"▚" indicator lights on the front display panel.
● The tape remaining time is calculated based on the
tape speed (SP or EP) being used. The indicated
remaining time is only an estimate.

To reset the time counter, press **C. RESET** on the
Remote. The counter reading becomes "0:00:00". It is
also reset when a tape is inserted.

B Checking tape position

The tape position indicator
appears on screen in the
following cases:
● When you change the VCR
operation mode from the
stop mode to fast forward or
rewind mode.
● When you perform an Index

Search (☞ pg. 17) or Instant Review (☞ pg. 18).
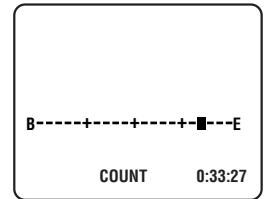
The position of " ■ " in relation to "B" (Beginning) or "E"
(End) shows you where you are on the tape.

NOTES:
● "ON SCREEN (PLAY)" must be set to "ON", or the indicator
will not appear (☞ pg. 37, 39).
● It may take a few seconds for the tape position indicator to be
displayed.

C Playing back tape repeatedly
— Repeat Play

You can play back a tape repeatedly.

**While playing back a tape, press and hold PLAY (►)
for more than 5 seconds.**
The play indicator (▷) on the front display panel starts
flashing slowly, and a tape will be played back
repeatedly.
To stop playback, press **STOP (■)** on the Remote or
STOP/EJECT (■ / ▲) on the front panel.
● To select the returning point (recording end or tape
end), see "RETURN POINT" on page 41.

To prohibit operations during Repeat Play (Mode Lock)
Press and hold **OK** on the Remote for more than 5
seconds. "▶┤" and "├◀" light up on the front display panel
(☞ pg. 60). The entire recording or entire tape will be
played back repeatedly without any interruption.
**To cancel Mode Lock,** press and hold **OK** on the Remote
again for more than 5 seconds.
● When **OK** is pressed to set Mode Lock, the on-screen
display appears and the time counter remains on the
TV screen. If the time counter is not necessary, set "ON
SCREEN (PLAY)" to "OFF" (☞ pg. 37, 39).

D Adjusting tracking condition
— Tracking Adjustments

Automatic tracking adjustment

This VCR automatically adjusts the tracking condition. Whenever you insert a tape and start playback, automatic tracking starts working and continuously analyzes the signal to enable optimum picture quality during playback.

Manual tracking adjustment

If automatic tracking cannot eliminate noises well during playback, use the manual tracking following the procedures below.
● You can also use the manual tracking during slow motion playback (☞ pg. 27).

1 Activate manual tracking

Press **SP/EP** on the Remote during playback.

2 Eliminate the noises on the TV screen

Press **CH +** or **–** on the Remote.
● Press it briefly for a fine adjustment, or press and hold for coarse adjustment. Watch the screen and continue adjustment until optimum picture and sound quality are achieved.
● To reactivate automatic tracking, press **SP/EP** on the Remote. The automatic tracking becomes active again.
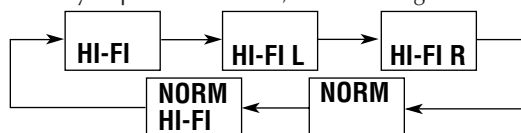
E Selecting monitor sound
— Audio Monitor

You can select the desired monitor sound.

While playing back a tape on which stereo sound or SAP sound is recorded, press A. MONITOR on the Remote.
Each time you press the button, sound changes as follows:

HI-FI:	Normally select this. Hi-Fi sound is played back.
HI-FI L:	Sound on the left Hi-Fi channel is played back.
HI-FI R:	Sound on the right Hi-Fi channel is played back.
NORM:	Sound on the normal track is played back.
NORM HI-FI:	Both sounds on the Hi-Fi track and normal track are mixed and played back.

NOTES:
● *The above indication appears when "ON SCREEN (PLAY)" is set to "ON" (☞ pg. 37, 39), though the monitor sound changes in sequence.*
● *If the tape being played back has no Hi-Fi sound track, the normal sound track will be heard regardless of this setting.*
● *If RF connection (☞ pg. 7) is used for viewing pictures on the TV, sound will be monaural even though you select "HI-FI".*
● *You can also use the menu to select your desired monitor sound. (☞ pg. 40)*

F Automatic operations after rewinding — Next Function Memory

The Next Function Memory "tells" the VCR what to do after rewinding is complete.
● Ensure that the VCR is in stop mode.

a– For Automatic Playback Start
Press **REW (◀◀)**, then press **PLAY (▶)** within 2 seconds.

b– For Automatic Power Off
Press **REW (◀◀)**, then press **POWER** within 2 seconds.

c– For Automatic Timer Standby
Press **REW (◀◀)**, then press **TIMER** within 2 seconds.

NOTE:

It is not possible to select the Automatic Timer Standby function if the cassette's record safety tab is removed.

G Locating beginning of recordings — Index Search

Index codes are placed on the tape at the beginning of each recording when recording on this VCR. You can find and automatically play back from the beginning of any recording using the Index Search function.

1 Start search

While the tape is not running, press **SHUTTLE PLUS** |◀◀ or ▶▶| on the Remote.

2 Access distant code

To access a recording of 2 to 9 index codes away, press **SHUTTLE PLUS** |◀◀ or ▶▶| repeatedly until the correct number is displayed on screen (only if "ON SCREEN (REC)" is set to "ON" ; ☞ pg. 37, 39). Playback begins automatically when the desired recording is located.
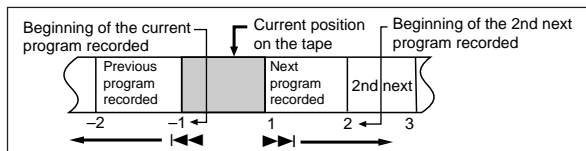
● If you want to find the very beginning of the desired program, press **REW (◀◀)** or **FF (▶▶)** after playback starts.

NOTE:

An index code is not placed on the tape when recording is resumed from recording pause.

I

H

REW (◄◄)   FF (►►)
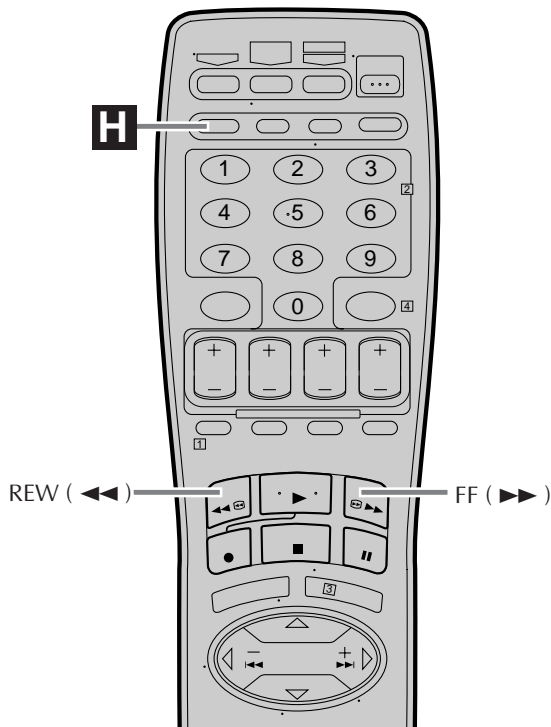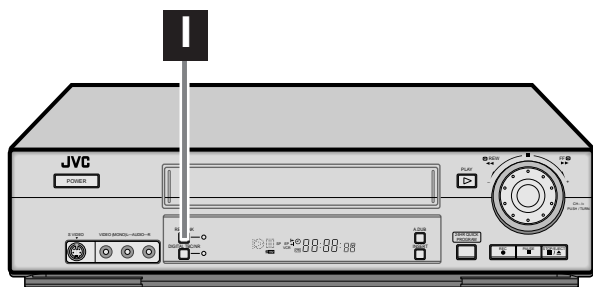
Other Useful functions for playback

● **Playback Resume Function**
If there is a power outage during normal playback (or
Series Playback), the playback will resume automatically
when the power is restored to the VCR. (No setting is
required for this function.)

● **Video Calibration** (☞ pg. 38)
When this function is set to "ON", this VCR checks the
condition of the tape in use during playback and
recording, and compensates to provide the highest-
possible pictures.

● **Picture Control** (☞ pg. 38)
This function helps you to adjust the playback picture
quality according to your preference.

● **Video Stabilizer** (☞ pg. 39)
You can automatically correct vertical vibrations in the
picture when playing back unstable recordings made on
another VCR.

H Locating beginning of timer recordings — Instant Review

At the press of a button, you can turn on the VCR,
rewind the tape and begin to view the most recent timer-
recorded program.

**After ensuring that the VCR is turned off and that the
timer mode is disengaged, press REVIEW.**

● The VCR turns on, and rewinds to the index code
  indicating the beginning of the last timer-recorded
  program, then begins playback automatically.
● You can access a program of 2 to 9 index codes away
  from the current position on the tape. If, for example,
  you have 5 programs recorded and you want to watch
  the third one, press **REVIEW** three times.
● If you want to find the very beginning of the desired program,
  press **REW (◄◄)** or **FF (►►)** after playback starts.
● If the tape is already rewound when **REVIEW** is
  pressed, it will play the tape from the beginning. It will
  not fast-forward to an index code.
● The Instant Review function will also operate if the
  VCR is turned on.

I Adjusting picture condition — Digital TBC/NR

The Digital TBC/NR (Time Base Corrector / Noise
Reduction) function removes jitter from fluctuating video
signals to deliver a stable picture even with old tapes
and rental tapes. The Digital 3-DNR (Noise Reduction)
function which cuts noise and reproduces clear pictures
is also linked to this function.
We recommend that you use the Digital TBC/NR
function when...
— playing back a tape recorded on a camcorder.
— playing back a tape repeatedly used.
— using this VCR as the player for editing.

**Press DIGITAL TBC/NR on the front panel so that the
DIGITAL TBC/NR lamp lights up.**
Each time you press the button, this function turns on
and off.

NOTES:
● *If you play back a tape recorded under poor TV reception
  condition, the picture may happen to become more stable
  with Digital TBC/NR activated.*
● *If you play back a tape on which certain types of signals
  (using a PC or some character generators) have been recorded
  with Digital TBC/NR activated, the playback picture may be
  distorted. In this case, deactivate Digital TBC/NR.*
● *Digital TBC/NR and Video Stabilizer (☞ pg. 39) cannot be
  used at the same time; if you turn on Digital TBC/NR when
  "VIDEO STABILIZER" is set to "ON", Video Stabilizer will be
  automatically turned "OFF". Make sure Digital TBC/NR is
  deactivated when you want to use Video Stabilizer.*

Basic Recording

Turn on the VCR and the TV, and select the VCR channel 3 or 4 (or AV mode) on the TV.

JOG dial

POWER PLAY (►)

JVC

PAUSE (**II**)

STOP/EJECT
(■ / ▲)

POWER

TV/VCR

1 2 3
4 5 6 –b
7 8 9
0

+ + + + –a

REW (◄◄) FF (►►)

PAUSE (**II**)

STOP (■)
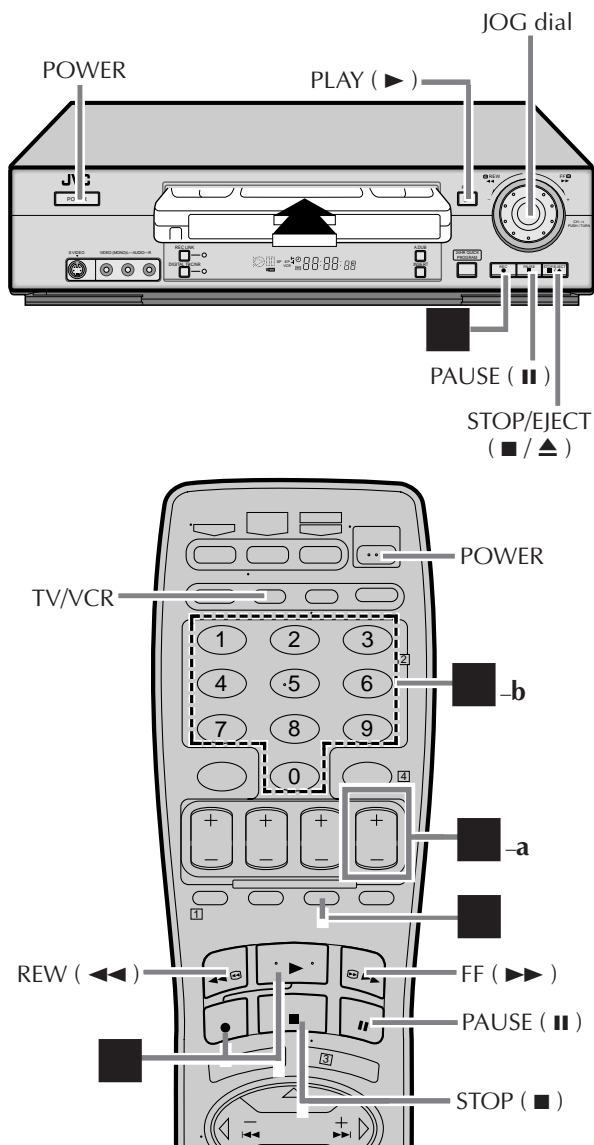
This VCR can check the tape condition during recording (and playback), and realizes the best possible pictures.

Load a cassette
Make sure the record safety tab is intact. If not, set "REC SAFETY" to "OFF" (☞ pg. 37, 41).

● You can also record onto a cassette without a record safety tab by covering the hole with adhesive tape before inserting the cassette.

Select recording channel

On the front panel:
Push the **JOG** dial, then turn it to the left or right.

On the Remote:
a – Press **CH +** or **–**.
or
b – Press the **Number** keys.

● If you connect the TV and the VCR only using the RF connection, press **TV/VCR** on the Remote so that the VCR mode indicator lights on the front display panel, to view the program to be recorded.

Set tape speed
Press **SP/EP** to set the recording speed.

Start recording

On the front panel:
Press **REC (●)**.

On the Remote:
While holding **REC (●)**, press **PLAY (►)**.

● If "VIDEO CALIBRATION" is set to "ON" (default setting: ☞ pg. 37, 38), this VCR checks the tape condition for about seven seconds, then starts recording. This means that the first seven seconds of the program will not be recorded. If this is inconvenient for you, follow the steps below:
  ❶ Press **REC (●)** and **PAUSE (II)** to start Video Calibration.
  ❷ Then press **PLAY (►)** to start recording after Video Calibration is complete.

To pause recording
Press **PAUSE (II)**. To resume recording, press **PLAY (►)**.
● Pressing **REC (●)** on the front panel also resumes recording.

To stop recording
Press **STOP (■)** on the Remote or **STOP/EJECT (■ / ▲)** on the front panel.

To rewind the tape (when it is not running)
Press **REW (◄◄)** (or turn the **JOG** dial on the front panel to the left).

To fast-forward the tape (when it is not running)
Press **FF (►►)** (or turn the **JOG** dial on the front panel to the right).

To eject the tape
Press **STOP/EJECT (■ / ▲)** on the front panel when the tape is not running.
● You can also eject the cassette with the VCR turned off.
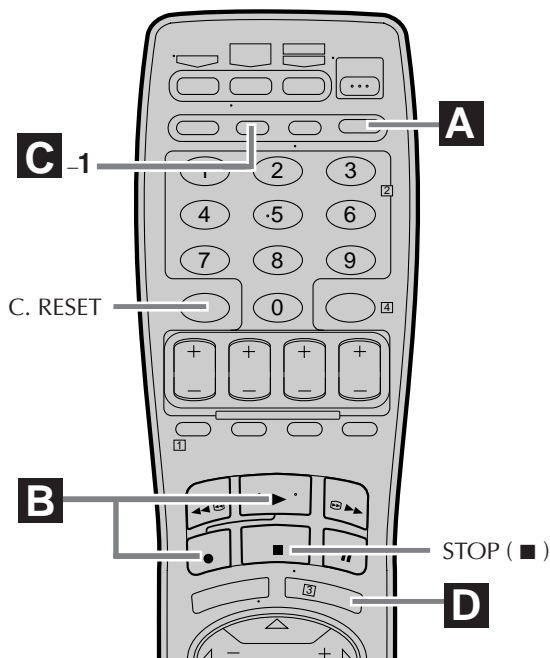
To turn off the VCR
Press **POWER**.

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

Basic Recording Features

STOP/EJECT (■ / ▲)

B
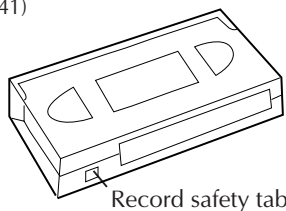
C –1

C. RESET

B

B

STOP (■)

D

### Accidental erasure prevention

To prevent accidental recording on a recorded cassette, remove its record safety tab. To record on it later, cover the hole with adhesive tape, or set "REC SAFETY" to "OFF". (☞ pg. 37, 41)

Record safety tab

Note: You can also record onto the cassette even when the tab is removed. (☞ pg. 41)

A Changing display information

Press DISPLAY during recording or recording pause.
Each time you press the button, the front display panel shows the time counter, tape remaining time, channel number and the clock time in sequence.
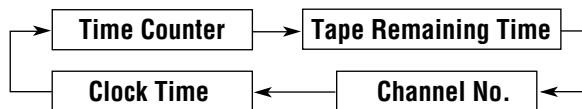
```
┌──→  Time Counter  ──→  Tape Remaining Time  ──┐
│                                                │
└──  Clock Time  ←──  Channel No.  ←────────────┘
```

● To display the VCR status including the tape remaining time, the time counter and the clock time on the TV screen, see "Showing on-screen display" (☞ pg. 21).
● The approximate tape remaining time appears and the "◥◣" indicator lights on the front display panel.
● The tape remaining time is calculated based on the tape speed (SP or EP) being used. The indicated remaining time is only an estimate.

To reset the time counter, press **C. RESET** on the Remote. The counter reading becomes "0:00:00". It is also reset when a tape is inserted.

B Recording on one tape repeatedly
— Repeat Recording

You can record programs on one tape repeatedly.

While recording, press and hold PLAY (►) and REC (●) on the Remote or REC (●) on the front panel for more than 5 seconds.
The record indicator on the front display panel starts flashing slowly.
To stop recording, press **STOP (■)** on the Remote or **STOP/EJECT (■ / ▲)** on the front panel.

To prohibit operations during Repeat Recording (Mode Lock)

Press and hold **OK** on the Remote for more than 5 seconds. "➡" and "➡❙" light up on the front display panel (☞ pg. 60). The recording will be performed repeatedly without any interruption.

To cancel Mode Lock, press and hold **OK** on the Remote again for more than 5 seconds.

● When **OK** is pressed to set Mode Lock, the on-screen display appears and the time counter will be recorded with your picture. If the time counter is not necessary, set "ON SCREEN (REC)" to "OFF" (☞ pg. 37, 39).

C Watching one program while recording another

1 Engage TV mode

During recording...
- **If you connect the TV and the VCR only using the RF connection (☞ pg. 7) to view pictures from the VCR**
  Press **TV/VCR** on the Remote so that VCR mode indicator goes off from the front display panel. (The TV broadcast being recorded disappears.)
- **If you are using the AV connection (☞ pg. 7) to view pictures from the VCR**, change the TV's input mode from AV to TV.

2 Select channel for viewing

Select the channel, you want to watch, on the TV.

D Showing on-screen display

When "ON SCREEN (REC)" is set to "ON" (☞ pg. 37, 38), you can see the current VCR status on the TV screen.
- For more detailed information about the on-screen display, see page 61.

1 Display VCR status on TV screen

During recording or recording pause, press **OSD**.
All indications corresponding to the current VCR status are displayed for 5 seconds. The time counter remains on the screen indicating the elapsed time.

```
CH  125              RECORD
FRI 12:00:00 AM      PAUSE
11/30/01             ⟦oo⟧SP
STEREO
SAP

B-----+----+----+-■---E
                     INDEX 1
NORM       REMAIN      10:00
HI–FI      COUNT    –1:23:45
```

- The indications will be recorded. If you do not want to record the superimposed operational indications on the screen, set "ON SCREEN (REC)" to "OFF". (☞ pg. 37, 38)

2 Exit on-screen display

Press **OSD** again.

NOTES:
- *If the VCR is in recording pause mode, "RECORD/PAUSE" is always displayed (except when "DAY/TIME INSERT" is set to "ON").*
- *The VCR status can be also displayed during playback.*

Other useful functions for recording

● **Recording Resume Function**
If there is a power outage during recording (or timer recording or Series Recording), the recording will resume automatically when the power is restored to the VCR. (No setting is required for this function.)

● **Video Calibration (☞ pg. 38)**
When this function is set to "ON", this VCR checks the condition of the tape in use during playback and recording, and compensates to provide the highest-possible pictures.

● **Second Audio Recording (☞ pg. 40)**
This VCR's built-in MTS decoder enables reception of Multichannel TV Sound broadcast.

To record a SAP program received, set "2ND AUDIO RECORD" to "ON" using the menu screen.

NOTES:
When the channel is changed on the VCR;
- *The "STEREO" indication appears on the screen for about 5 seconds if the program is a stereo broadcast.*
- *The "SAP" indication appears on the screen for about 5 seconds if the program is a SAP broadcast.*
- *Both indications appear when a stereo program is accompanied by SAP sound.*

● **S-VHS Recording Mode (☞ pg. 40)**
This VCR allows you to record on an S-VHS tape with VHS picture quality.

● **S-VHS ET (☞ pg. 41)**
This function allows you to record on VHS tapes with S-VHS picture quality. Tapes recorded using this function can be played back on a VCR equipped with the S-VHS ET function.

To prohibit operations during recording (Mode Lock)
Press and hold **OK** on the Remote for more than 5 seconds. "▶" and "▶" light up on the front display panel (☞ pg. 60). No button will function and recording will not be interrupted until it completes.
To resume the other operations, press and hold **OK** on the Remote again for more than 5 seconds.
- When **OK** is pressed to set Mode Lock, the on-screen display appears and the time counter will be recorded with your picture. If the time counter is not necessary, set "ON SCREEN (REC)" to "OFF" (☞ pg. 37, 39).

Series Playback

To REMOTE OUT

SR-V10U-1

REMOTE
IN

REMOTE
OUT

IN OUT

ANTENNA IN

AUDIO

VIDEO

R

L

VHF/UHF

TV OUT

To S VIDEO OUT

To REMOTE
IN

To
AUDIO/
VIDEO
OUT

Mini-plug
cable
(Not supplied)

S-Video Cable
(Supplied)

Mini-plug
cable
(Not supplied)

Audio/Video
Cable
(Supplied)

To
AUDIO/
VIDEO IN

To S VIDEO IN

To REMOTE
OUT

To REMOTE IN

SR-V10U-2

REMOTE
OUT

REMOTE IN

OUT

ANTENNA IN

AUDIO

VIDEO

R

L

VHF/UHF

TV OUT

IN OUT

To S VIDEO OUT

To AUDIO/ VIDEO OUT

S-Video Cable (Supplied)

Audio/Video Cable (Supplied)

To S-Video Input

To Audio/Video
Input

NOTE:
Series Playback is also possible using the front AUDIO/VIDEO connectors.

STOP/EJECT
(■ / ▲)

Using two sets of SR-V10U, you can play back two cassettes alternately as many times as you want. You can select the returning point for Series Playback (☞ pg. 41)

Use the buttons and controls on the VCR's front panel for the Series Playback operations (except when using Mode Lock).

Make connections

Connect two sets of SR-V10U and a TV using AV cables as shown in the illustration on page 22.

● The mini-plug cable is a mono 3.5 mm mini-plug to mono 3.5 mm mini-plug connector.
● When playing back S-VHS recordings, it is recommended to use the S-VIDEO connection to minimize picture degradation.

Turn on all components

After completing the connections, turn on all the components.

● Set the TV to video input mode or A/V input mode. Refer to the TV instruction manual.

Load cassettes

Insert the playback cassette into each SR-V10U.

● Set SR-V10U-2 to "AUX". Press **CH +** or **–** to select the input mode depending on the connector being used -"L-1" for the rear AUDIO/VIDEO IN connector, or "F-1" for the front AUDIO/VIDEO input connector.

Start playback

Press **PLAY (►)** on either of SR-V10U. When the playback reaches to the returning point (tape end or recording end ☞ pg. 41), the other SR-V10U successively starts to play. (The cassette will automatically be rewound when the playback stops.) Therefore, the cassettes loaded on two SR-V10U will be played back alternately as many times as you want.

To stop playback

Press **STOP/EJECT (■ / ▲)** on the SR-V10U which is playing back a cassette.

NOTE:
If there is a power outage during Series Playback, the playback will resume automatically when the power is restored to the VCR. (No setting is required for this function.)

To prohibit operations during Series Playback (Mode Lock)
Press and hold **OK** on the Remote for more than 5 seconds. "➡" and "➡|" light up on the front display panel (☞ pg. 60). The 2 cassettes will be played back alternately without any interruption.
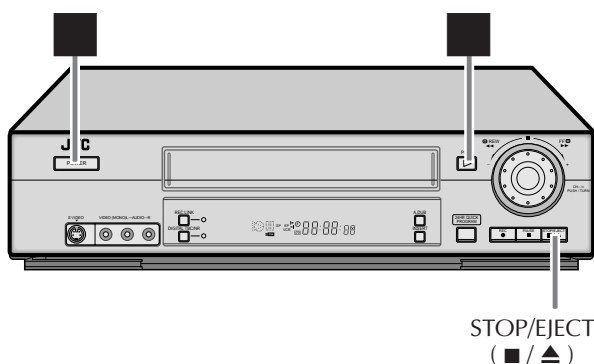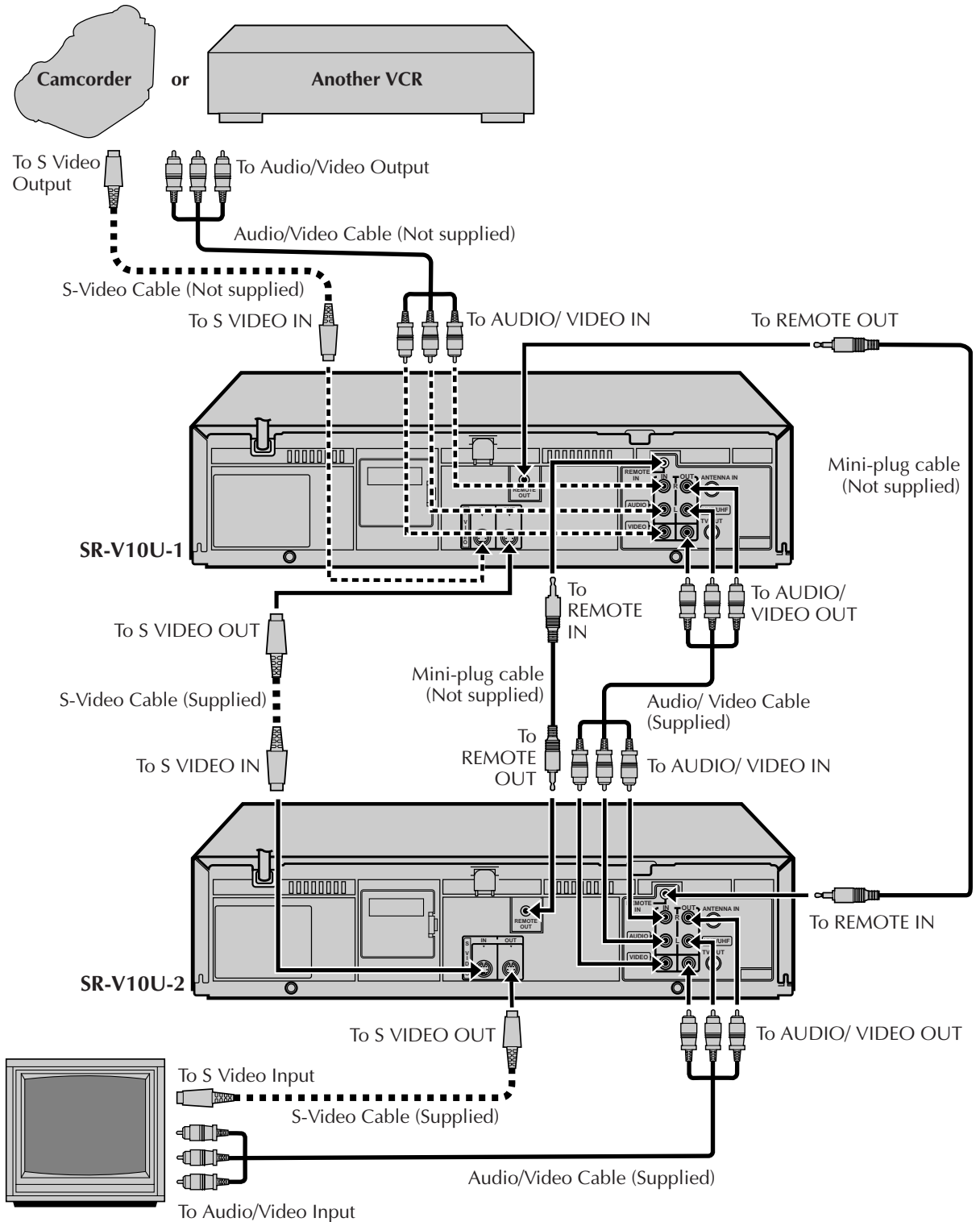**To resume the other operations,** press and hold **OK** on the Remote again for more than 5 seconds.
● When **OK** is pressed to set Mode Lock, the on-screen display appears and the time counter remains on the TV screen. If the time counter is not necessary, set "ON SCREEN (PLAY)" to "OFF" (☞ pg. 37, 39).

Series Recording
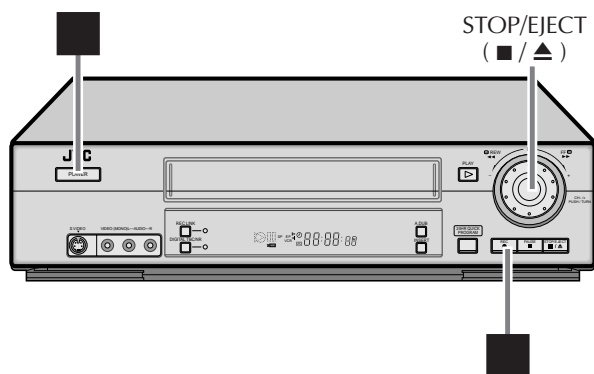
Camcorder | or | Another VCR

To S Video Output

To Audio/Video Output

Audio/Video Cable (Not supplied)

S-Video Cable (Not supplied)

To S VIDEO IN

To AUDIO/ VIDEO IN

To REMOTE OUT

REMOTE IN

OUT

ANTENNA IN

AUDIO

UHF

VIDEO

TV OUT

SR-V10U-1

To S VIDEO OUT

To REMOTE IN

To AUDIO/ VIDEO OUT

Mini-plug cable (Not supplied)

S-Video Cable (Supplied)

Mini-plug cable (Not supplied)

Audio/ Video Cable (Supplied)

To S VIDEO IN

To REMOTE OUT

To AUDIO/ VIDEO IN

REMOTE IN

OUT

ANTENNA IN

AUDIO

UHF

VIDEO

TV OUT

REMOTE OUT

SR-V10U-2

To REMOTE IN

To S VIDEO OUT

To AUDIO/ VIDEO OUT

To S Video Input

S-Video Cable (Supplied)

Audio/Video Cable (Supplied)

To Audio/Video Input

NOTE:
Select the correct input mode ("L-1" for the rear connector, "F-1" for the front connector). (☞ step 3)

STOP/EJECT
(■ / ▲)

Using two sets of SR-V10U, a long recording will be possible (such as camcorder recording, another VCR playback or TV broadcast).

> Use the buttons and controls on the VCR's front panel for the Series Recording operations (except when using Mode Lock).

Make connections

Connect two sets of SR-V10U to other equipment, antenna or cable as shown in the illustration on page 24.

- ●The mini-plug cable is a mono 3.5 mm mini-plug to mono 3.5 mm mini-plug connector.
- ● When connecting a camcorder or another VCR with an S-VIDEO output connector as recording source, it is recommended to use the S-VIDEO connection to minimize picture degradation.

Turn on all components

After completing the connections, turn on all the components.

- ● Set the TV to video input mode or A/V input mode. Refer to the TV instruction manual.

Set recording VCR's input mode

Set to "AUX". Press **CH +** or **–** to select the input mode depending on the connector being used – "L-1" for the rear AUDIO/VIDEO IN connector, or "F-1" for the front AUDIO/VIDEO input connector.

Prepare for recording

Insert the recording cassette into each SR-V10U, and prepare the playback source.

NOTE:

If you do not want to display the superimposed indication on the screen during recording, set "ON SCREEN (REC)" to "OFF" (☞ pg. 37, 38). If the playback equipment has a superimpose/OSD disable feature, set its superimpose or display feature to "OFF" as well.

Start recording

Press **REC** (●) on either of SR-V10U. When the tape remaining time reaches to 2 minutes while recording, the other SR-V10U successively starts to record. Therefore, recording will be continued onto cassettes loaded on two SR-V10U alternately.

- ● The cassette will automatically be rewound when the recording stops.
- ● Replace the cassette after rewound if you want to continue to record onto another cassette.

To stop recording

Press **STOP/EJECT (■ / ▲)** on the SR-V10U which is recording.

To prohibit operations during Series Recording (Mode Lock)

Press and hold **OK** on the Remote for more than 5 seconds. "➡" and "➡┃" light up on the front display panel (☞ pg. 60). The picture will be recorded onto the cassettes alternately without any interruption.
To resume the other operations, press and hold **OK** on the Remote again for more than 5 seconds.

- ● When **OK** is pressed to set Mode Lock, the on-screen display appears and the time counter will be recorded with your picture. If the time counter is not necessary, set "ON SCREEN (REC)" to "OFF" (☞ pg. 37, 39).

NOTES:

- *● Series Recording is also possible using the front AUDIO/ VIDEO connectors.*
- *● When recording a TV broadcast, tune in the same channel on both SR-V10U.*
- *● If you do not want to record the operational indications on the screen during Series Recording, set both "ON SCREEN (PLAY)" and "ON SCREEN (REC)" to "OFF". (☞ pg. 37, 38)*
- *● If there is a power outage during Series Recording, the recording will resume automatically when the power is restored to the VCR. (No setting is required for this function.)*

Special Effect Playback

A **B** **D** **E**

PLAY (►)

B **D**

A

PLAY (►)

C

A

A

B

D

A **D**

E

JVC

A Locating particular scene rapidly — Picture Search

■ High-Speed Picture Search:

You can rapidly locate a particular scene on the tape.

On the front panel:

Possible during normal playback.
To do forward picture search, turn the **JOG** dial quickly to the right.
To do reverse picture search, turn the **JOG** dial quickly to the left.
● If you release the dial, picture search continues.

On the Remote:

Possible during normal playback or still picture playback.
To do forward picture search, press **FF** (►►).
To do reverse picture search, press **REW** (◄◄).
● If you press and hold the button for more than 2 seconds, simply releasing it cancels the picture search, and normal playback resumes.

To resume normal playback, press **PLAY (►)**.

■ Variable-Speed Picture Search:

Possible during normal playback.
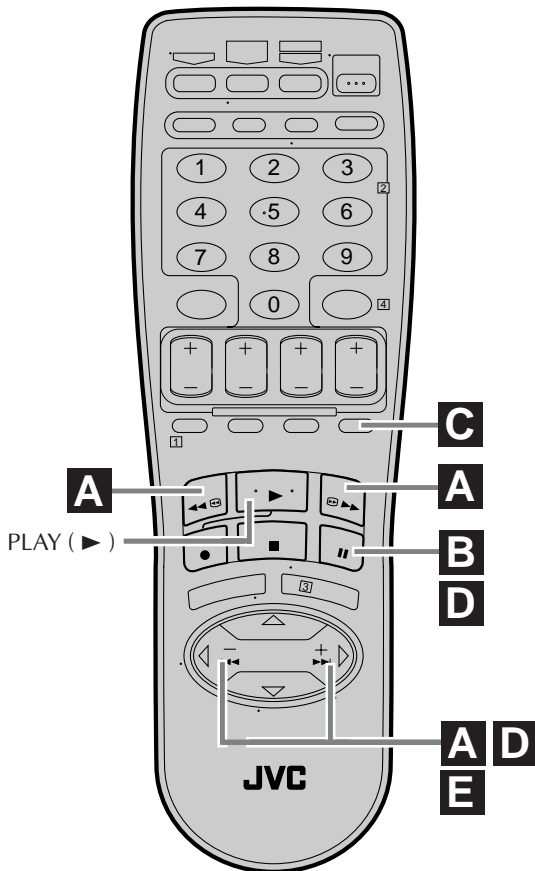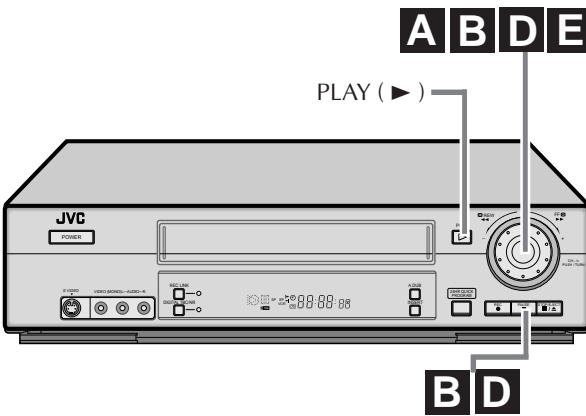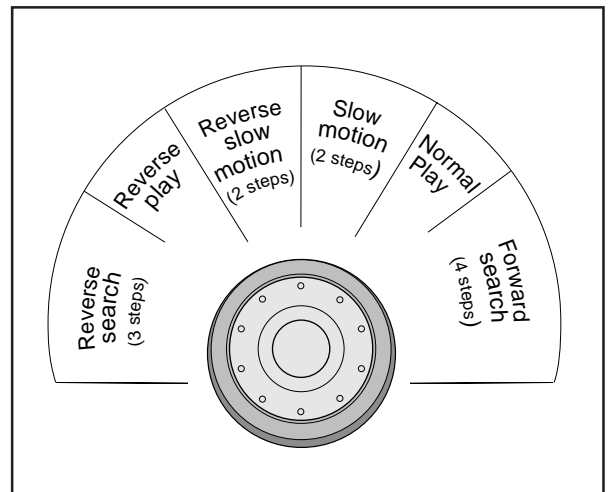You can change the speed of picture search.

How to use the JOG dial on the front panel:

Turn the **JOG** dial to the right (forward search) or to the left (reverse search).
Each time the **JOG** dial passes a click position, picture search speed changes (see the diagram below).
If you release the dial, picture search continues.
● The speed of picture search is determined by the number of click stops of the **JOG** dial.

Reverse
play

Reverse
slow
motion
(2 steps)

Slow
motion
(2 steps)

Normal
Play

Reverse
search
(3 steps)

Forward
search
(4 steps)

How to use the SHUTTLE PLUS buttons on the Remote:
To do forward picture search, press **SHUTTLE PLUS**
▶▶l repeatedly.
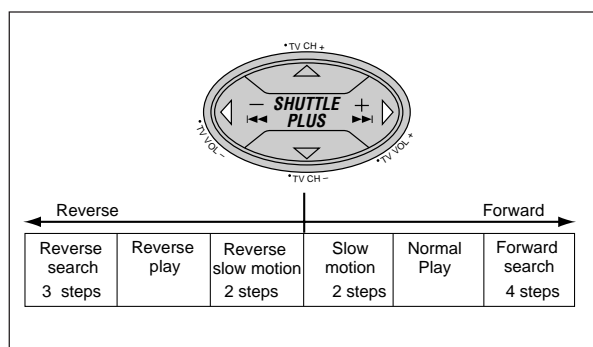Each time you press the button, the search speed
increases.

● To decrease the speed while forward picture search
   (toward normal playback, then reverse picture search),
   press **SHUTTLE PLUS** l◀◀ repeatedly.

To do reverse picture search, press **SHUTTLE PLUS** l◀◀
repeatedly.
Each time you press the button, the search speed
increases while reverse picture search.

● To decrease the speed while reverse picture search
   (toward normal playback, then forward picture
   search), press **SHUTTLE PLUS** ▶▶l repeatedly.

To resume normal playback, press **PLAY** (▶).

Reverse					Forward
Reverse search	Reverse play	Reverse slow motion	Slow motion	Normal Play	Forward search
3 steps		2 steps	2 steps		4 steps

B Viewing still picture
— Still Picture Playback

On the front panel:
Push the **JOG** dial during normal playback.

On the front panel or the Remote:
Press **PAUSE (ll)** during normal playback.
Playback is freezed and a still picture appears.

To resume normal playback, press **PLAY** (▶).

NOTE:

*To obtain a noiseless still picture, it may be necessary to adjust
tracking in slow motion playback before starting still picture
playback.*

C Skipping unwanted portions
— Skip Search

You can skip over (view at high speed) unwanted
portions of the tape.

Press SKIP SEARCH once to 4 times during playback.
Each press initiates a 30-second period of high speed
playback (up to 2 minutes). When the specified portion
of the tape is skipped, normal playback resumes
automatically.
To return to normal playback during Skip Search, press
PLAY (▶).

D Viewing still picture frame by frame — Frame-by-Frame Playback

On the front panel:
During normal playback:
Push the **JOG** dial or press **PAUSE (ll)** to pause.
To advance a still picture, turn the **JOG** dial to the right.
To reverse a still picture, turn the **JOG** dial to the left.

On the Remote:
During normal playback:
Press **PAUSE (ll)** to pause.
To advance a still picture, press **SHUTTLE PLUS** ▶▶l (or
PAUSE (ll)) repeatedly.
To reverse a still picture, press **SHUTTLE PLUS** l◀◀
repeatedly.

To resume normal playback, press **PLAY** (▶).

E Viewing slow motion picture
— Slow Motion Playback

On the front panel:
During normal playback:
Turn the **JOG** dial to the first or second click-stop to the
left (forward slow motion) or to the third or fourth click-
stop to the left (reverse slow motion) so that slow motion
playback starts. If you release the dial, slow motion
playback continues.

● Holding **PAUSE (ll)** for more than 2 seconds also
   starts forward slow motion playback.

On the Remote:
● **During normal playback:**
Press **SHUTTLE PLUS** l◀◀ to decrease the playback
speed.
Each time you press the button, the speed decreases
(toward reverse slow motion playback, then reverse
picture search).

● Holding **PAUSE (ll)** for more than 2 seconds also
   starts forward slow motion playback.

To resume normal playback, press **PLAY** (▶).

● **During still picture playback:**
Press and hold **SHUTTLE PLUS** ▶▶l to start forward (or
SHUTTLE PLUS l◀◀ to start reverse) slow motion
playback. When you release the button, slow motion
playback stops and a still picture appears.

● Holding **PAUSE (ll)** for more than 2 seconds also
   starts forward slow motion playback.

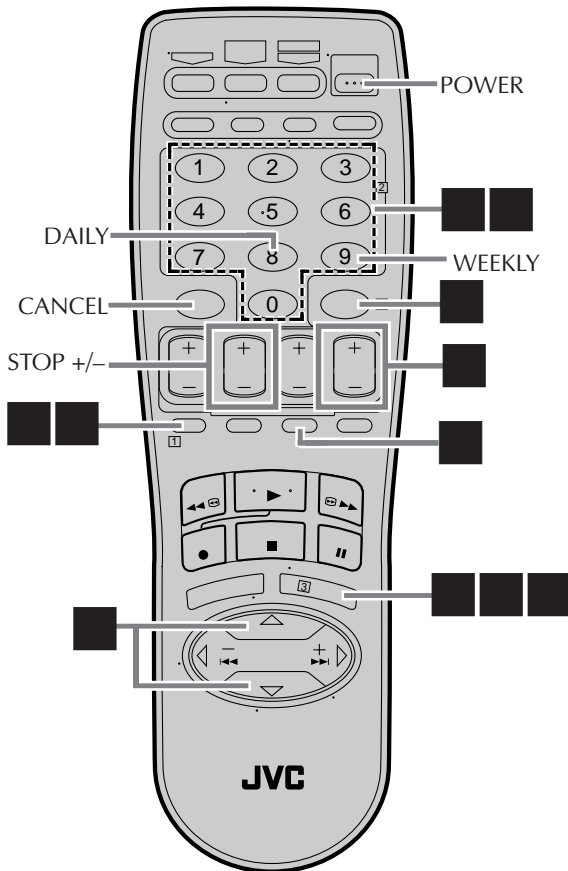**To resume normal playback,** press **PLAY** (▶).

NOTE:

*Manual tracking is possible during slow motion playback.
During slow motion playback, simply press **CH +** or **–** on the
Remote to adjust tracking.*

VCR Plus+® Timer Programing

Turn on the VCR and the TV, and select the VCR channel 3 or 4 (or AV mode) on the TV.

Timer recording allows you to program the VCR to automatically record a broadcast at some future time. Up to 8 timer recording programs can be made using VCR Plus+ timer programing, Express timer programing (☞ pg. 32) or 24HR quick programing method (☞ pg. 34) as far as a year in advance.

The VCR Plus+ timer programing system eliminates the need to input channel, date, start and stop time data when programing timer recording settings. Simply key in the PlusCode number for the TV broadcast you wish to record and the VCR's timer will be automatically programed. (The PlusCode programing numbers are the numbers next to the program in most TV listing.)

Load a cassette

Make sure the record safety tab is intact. If not, set "REC SAFETY" to "OFF" (☞ pg. 37, 41).

● The VCR turns on, and the counter is reset, automatically.
● You can also record onto a cassette without a record safety tab by covering the hole with adhesive tape before inserting the cassette.

Access PlusCode No. screen

Press **PROG.** on the Remote.

● The clock must be set to access the PlusCode No. screen. If you have not set the clock, the Main Menu screen appears after an error message is displayed. Refer to page 8 for the Plug & Play setting or page 10 for the clock setting procedure.

PLUSCODE NO.

```
PRESS NUMBER KEY (0–9)
PRESS (+/–) TO SET
    EXPRESS PROGRAMMING
PRESS (PROG.) TO END
```
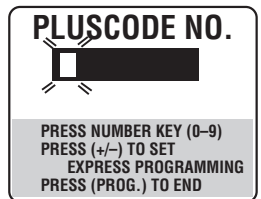
Enter PlusCode number

Press the appropriate **Number** keys to input the PlusCode number printed in the TV listings for the TV broadcast you wish to record, then press **OK**.

PLUSCODE NO.

123

```
PRESS NUMBER KEY (0–9)
                THEN (OK)
PRESS (PROG.) TO END
```
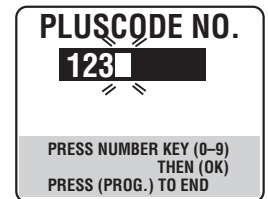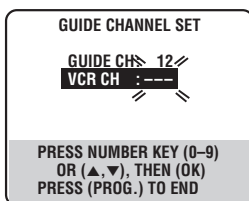
Then;
If the Guide Channel Set screen appears
    — go to step ■.
If the VCR Plus+ Program screen appears
    — go to step ■.

● To make corrections, press **CANCEL** and input the correct PlusCode number.

POWER

DAILY

WEEKLY

CANCEL

STOP +/–

JVC

Input receiving channel number

The guide channel number, which is assigned to the TV or cable station for the PlusCode number that you entered in step ■, will appear automatically on the Guide Channel Set screen.
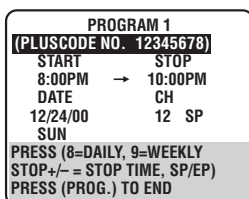
```
       GUIDE CHANNEL SET

       GUIDE CH↘  12↗
       VCR CH  : – – –


   PRESS NUMBER KEY (0–9)
   OR (▲,▼), THEN (OK)
   PRESS (PROG.) TO END
```

Press the **Number** keys (or **CH +/–** or **SHUTTLE PLUS** △▽) to input the number of the channel on which the broadcast for the PlusCode number is received on the VCR, then press **OK**.

● The Guide Channel Set screen appears only when you input the PlusCode number of a station for which the guide channel number has not been set previously.

● If you receive your channels through a cable box, select the cable box output channel — the channel on which you view the cable box programs on the TV.

Check program date

The PlusCode number you entered and the corresponding timer recording program is displayed on the Program screen. Check to make sure it is accurate.

```
        PROGRAM 1
   (PLUSCODE NO. 12345678)
    START         STOP
    8:00PM   →   10:00PM
    DATE          CH
    12/24/00      12  SP
    SUN
   PRESS (8=DAILY, 9=WEEKLY
   STOP+/– = STOP TIME, SP/EP)
   PRESS (PROG.) TO END
```

● To change the stop time, press **STOP +/–**.

● To timer-record daily (Sunday–Saturday) or weekly serials, press **DAILY** (number "**8**") or **WEEKLY** (number "**9**"). "DAILY" or "WEEKLY" appears on the Program screen.
Pressing the button again makes each corresponding display disappear.

● If you made a mistake, press **CANCEL** to access the PlusCode No. screen again and input the correct PlusCode number.

● If an incorrect PlusCode number or the one for a broadcast already finished has been inputted, "ERROR" is displayed for about 5 seconds, then the PlusCode No. screen reappears.

Set tape speed

Press **SP/EP**.

Return to normal screen

Press **PROG.** or **OK**.
"PROGRAM COMPLETED" appears on the screen for about 5 seconds, then normal screen appears.

● If "PROGRAM NOT COMPLETED PROGRAM OVERLAP" appears, you have another program overlapping the program you have just made. The Program Check screen appears and conflicting programs will start blinking. You can now correct the conflicting programs. See "When programs overlap each other" on page 36.

Engage timer recording standby mode

Press **TIMER**.
The VCR turns off automatically and "⏱" is displayed on the front display panel.

To use the VCR while it is in timer recording standby mode

Press **TIMER** to cancel the timer recording standby mode, then press **POWER** to turn on the VCR.
DO NOT forget to put the VCR into timer recording standby mode again by pressing **TIMER** after you use the VCR; otherwise, you cannot record the broadcasts you want.

● When "AUTO TIMER" is set to "ON" (☞ pg. 37, 38) , the timer recording standby mode is automatically engaged when the VCR is turned off. It is temporarily canceled when the VCR is turned on. You do not have to press **TIMER** to engage or disengage the timer recording standby mode.

IMPORTANT

If you have moved to a different area or if a broadcasting station's channel number has been changed, the wrong VCR CH number will be displayed on the Program screen in step ■. When this happens, set the correct guide channel number for that station. (☞ pg. 30, "Changing VCR Plus+ Setting")

NOTES:

● *In case of a power failure after programming, the recorder's memory backup keeps your selections (if the lithium battery is not exhausted).*

● *To timer-record cable channels received through a cable box, be sure to keep the cable box turned on with the correct channel selected.*

Changing VCR Plus+® Setting

Turn on the VCR and the TV, and select the VCR channel 3 or 4 (or AV mode) on the TV.

IMPORTANT

If you have moved to a different area or if a broadcasting station's channel number has been changed, the wrong VCR CH number will be displayed on the Program screen (☞ step ■ on page 29). When this happens, perform the following steps to set the correct guide channel number for that station.

To ensure that VCR Plus+ timer recording operates correctly, it is necessary to set the VCR Plus+ "Guide Channel Set" for each station. Read the following information carefully.

VCR Plus+ guide channel matching

The VCR Plus+ programing system assigns a VCR Plus+ guide channel to the TV channels and the cable channels. These guide channel numbers are also called the VCR Plus+ channel codes. Most TV listings have a section, usually a chart, indicating the guide channel numbers assigned to each station. For accurate VCR Plus+ programing, the VCR Plus+ guide channel number for each station should match the channel number on which it is received in your area.

NOTES:

● *In many instances, the VCR Plus+ guide channel numbers for cable and broadcast TV stations DO NOT match the channel number on which it is received by your VCR or cable box. Check your TV listing, or contact your cable supplier for details.*

● *Many TV stations can be viewed on cable. Check your TV listing, or contact your cable supplier for details.*
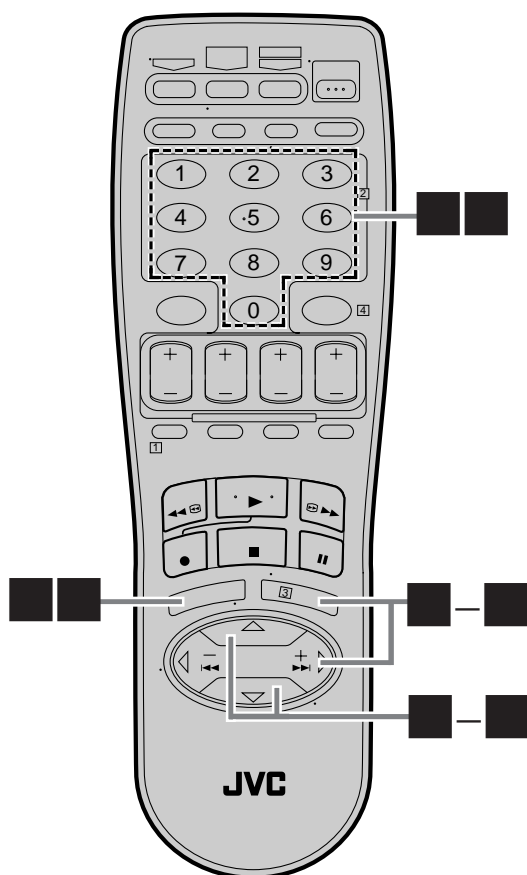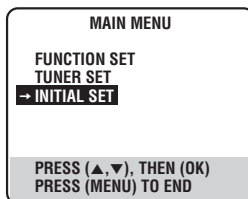
■ **Access Main Menu screen**
Press **MENU**.

■ **Access Initial Set screen**
Press **SHUTTLE PLUS**
△▽ to move the
highlight bar (arrow) to
"INITIAL SET", then
press **OK** or **SHUTTLE
PLUS** ▷.

```
            MAIN MENU

       FUNCTION SET
       TUNER SET
     → INITIAL SET


     PRESS (▲,▼), THEN (OK)
     PRESS (MENU) TO END
```

■ **Access Guide Channel Set screen**
Press **SHUTTLE PLUS**
△▽ to move the
highlight bar (arrow) to
"GUIDE CHANNEL
SET", then press **OK** or
SHUTTLE PLUS ▷.

```
             INITIAL SET

        CLOCK SET
      → GUIDE CHANNEL SET


     SELECT WITH (▲,▼) AND (OK)
     PRESS (MENU) TO END
```
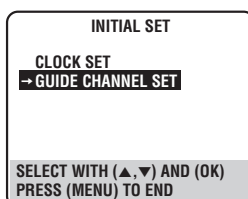
■ **Input guide channel number**
Press the **Number** keys
or **SHUTTLE PLUS** △▽
to input the VCR Plus+
guide channel number
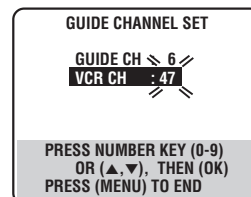as shown in the TV
listing, then press **OK** or
SHUTTLE PLUS ▷.

(Ex.) When inputting the
guide channel number 6
for WNJU(Ind.)

```
        GUIDE CHANNEL SET

       GUIDE CH :      6
       VCR CH   : - - -


     PRESS NUMBER KEY (0-9)
       OR (▲,▼),  THEN (OK)
     PRESS (MENU) TO END
```
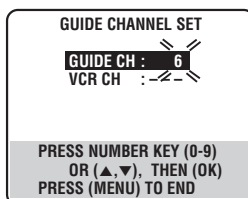
■ **Input receiving channel number**
Press the **Number** keys
or **SHUTTLE PLUS** △▽
to input the number of
the channel on which
the guide channel's
broadcasts are received,
then press **OK** or
SHUTTLE PLUS ▷.

(Ex.) If WNJU(Ind.) is
received on channel 47

```
        GUIDE CHANNEL SET

       GUIDE CH    6
       VCR CH   : 47


     PRESS NUMBER KEY (0-9)
       OR (▲,▼), THEN (OK)
     PRESS (MENU) TO END
```
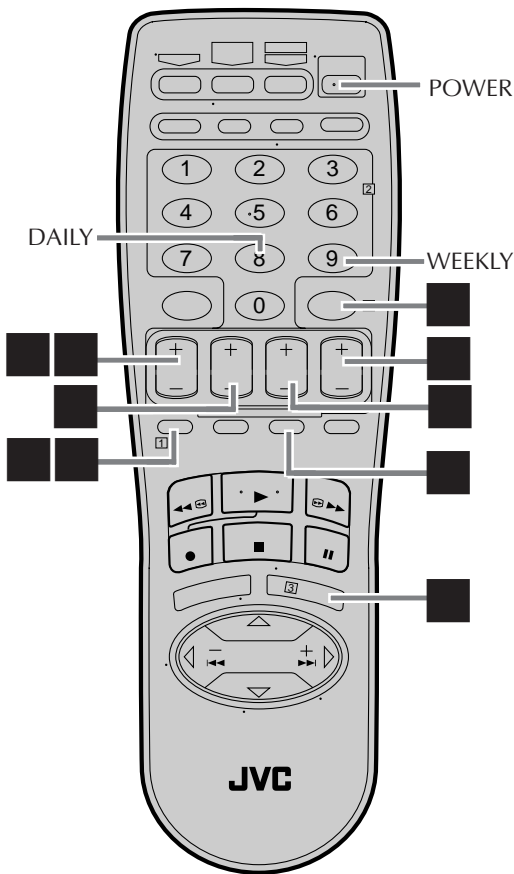
● Repeat steps ■ and ■
for each instance.
● If you receive your channels through a cable
box, select the cable box output channel — the
channel on which you view the cable box
programs on the TV.

■ **Return to normal screen**
Press **MENU**.

Express Timer Programing

Turn on the VCR and the TV, and select the VCR channel 3 or 4 (or AV mode) on the TV.

You can directly program the VCR's timer to record up to 8 programmes, as far as a year in advance. Remember, the clock must be set before you can program the timer (☞ pg. 8 or 10).

POWER

DAILY

WEEKLY

JVC

Load a cassette

Make sure the record safety tab is intact. If not, set "REC SAFETY" to "OFF" (☞ pg. 37, 41).

● The VCR turns on, and the counter is reset, automatically.
● You can also record onto a cassette without a record safety tab by covering the hole with adhesive tape before inserting the cassette.

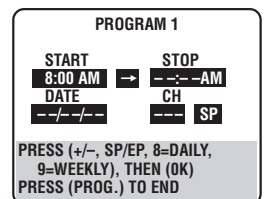### Access PlusCode No. screen
Press **PROG.**.

Access Program screen

Press **START +/–** once. (If no program is stored, "PROGRAM 1" appears.)

```
        PROGRAM 1

 START           STOP
 --:--AM   →   --:--AM
 DATE            CH
 --/--/--       ---  SP

 PRESS (+/–, SP/EP, 8=DAILY,
   9=WEEKLY), THEN (OK)
 PRESS (PROG.) TO END
```
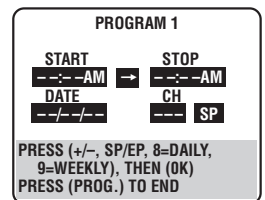
Set program start time

Press **START +/–** repeatedly to enter the time you want recording to start.

● Press and hold **START +/–** to increase the time in 30-minute intervals.

```
        PROGRAM 1

 START           STOP
 8:00 AM   →   --:--AM
 DATE            CH
 --/--/--       ---  SP

 PRESS (+/–, SP/EP, 8=DAILY,
   9=WEEKLY), THEN (OK)
 PRESS (PROG.) TO END
```

Set program stop time

Press **STOP +/–** repeatedly to enter the time you want recording to stop.

● Press and hold **STOP +/–** to increase the time in 30-minute intervals.

Set program date

Press **DATE +/–**. (The current date is displayed on the screen. The date you enter appears in its place.)

Set channel number

Press **CH +/–**.

● Holding down **CH +/–** rapidly changes the channel numbers.
● If you receive your programs through a cable box, select the cable box output channel — the channel on which you view the cable box programs on the TV.

■ **Set tape speed**

Press **SP/EP** to set the tape speed.

■ **Return to normal screen**

Press **PROG.** or **OK**.

"PROGRAM COMPLETED" appears on the screen for about 5 seconds, then normal screen appears.

• If "PROGRAM NOT COMPLETED PROGRAM OVERLAP" appears, you have another program overlapping the program you have just made. The Program Check screen appears and conflicting programs will start blinking. You can now correct the conflicting programs. See "When programs overlap each other" on page 36.

■ **Engage timer recording standby mode**

Press **TIMER**.

The VCR turns off automatically and "⏲" is displayed on the front display panel.

To timer-record daily (Sunday–Saturday) or weekly serials

Press **DAILY** (number "**8**") or **WEEKLY** (number "**9**") anytime during steps ■ through ■.

"DAILY" or "WEEKLY" appears on the Program screen.

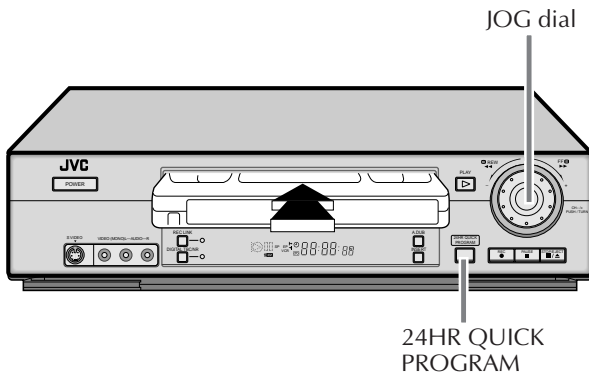● Pressing the button again makes the corresponding indication disappear.

To use the VCR while it is in timer recording standby mode

Press **TIMER** to cancel the timer recording standby mode, then press **POWER** to turn on the VCR.

DO NOT forget to put the VCR into timer recording standby mode again by pressing **TIMER** after you use the VCR; otherwise, you cannot record the broadcast you want.

● When "AUTO TIMER" is set to "ON" (☞ pg. 37, 38), the timer recording standby mode is automatically engaged when the VCR is turned off. It is temporarily canceled when the VCR is turned on. You do not have to press **TIMER** to engage or disengage the timer recording standby mode.

NOTES:

● *In case of a power failure after programming, the recorder's memory backup keeps your selections (if the lithium battery is not exhausted).*

● *Programs that start after midnight must have the next day's date.*

● *After timer recording is completed, the VCR turns off automatically.*

● *You can program the timer recording while a regular recording is in progress.*

● *To timer-record cable channels, be sure to keep the cable box turned on with the correct channel selected.*

24HR Quick Programing

JOG dial

24HR QUICK PROGRAM

NOTES:
- *If "Err" appears on the display panel, repeat the steps again.*
- *When a menu screen is shown, you cannot use 24HR quick programing function. Press **MENU** to return to normal screen, and try again.*
- *You can use 24HR quick programing function also when the VCR is turned off.*
- *For 24HR quick programing function, the program overlap warning display does not appear even if some programs overlap each other.*
- *In case of a power failure after programming, the recorder's memory backup keeps your selections (if the lithium battery is not exhausted).*

You can program a timer recording that starts within 24 hours. Up to 8 timer recording programs can be made as far as a year in advance. Remember, the clock must be set before you can program the timer (☞ pg. 8 or 10).
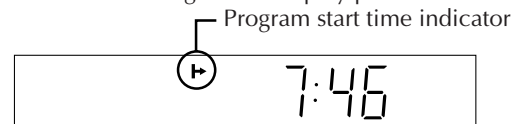
Load a cassette
Make sure the record safety tab is intact. If not, cover the hole with adhesive tape, then load it into the VCR.
- The VCR turns on, and the counter is reset, automatically.

Access 24HR quick program display.
Push **24HR QUICK PROGRAM**. "↦" and start time start blinking on the display panel.

— Program start time indicator

7:46

Set program start time
Turn the **JOG** dial to the left or right. Then, push the **JOG** dial. "→|" and start time start blinking on the display panel.

— Program start time indicator

8:00
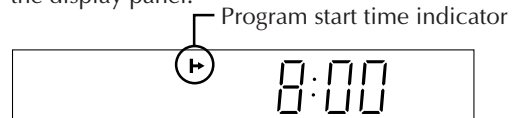
- One click stop of the **JOG** dial changes the time in 5-minute intervals.

Set program stop time
Turn the **JOG** dial to the left or right. Then, push the **JOG** dial and channel number will start blinking.

— Program stop time indicator

9:00
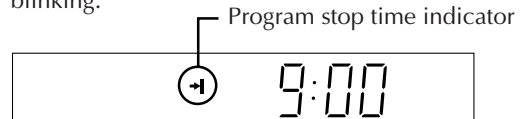
- One click stop of the **JOG** dial changes the time in 5-minute intervals.

Set channel number
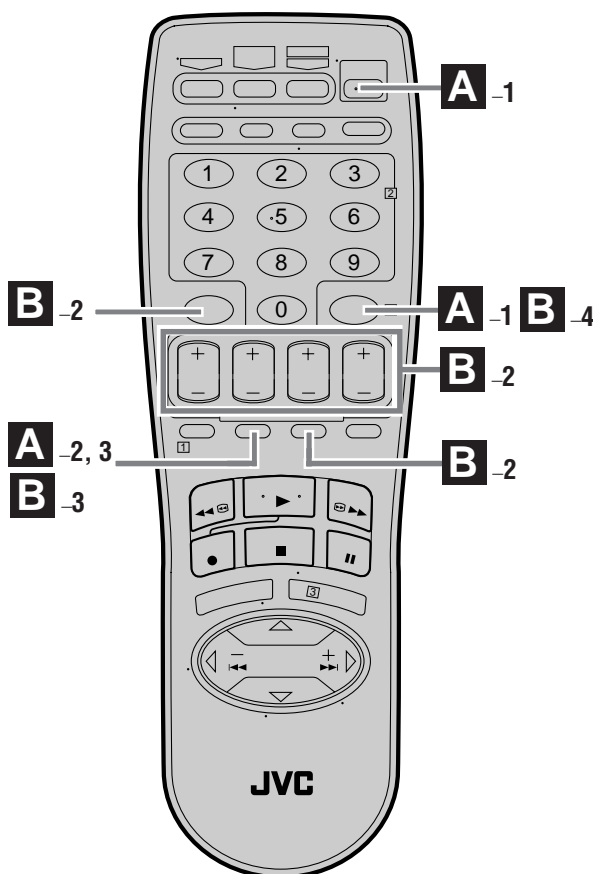Turn the **JOG** dial to the left or right.

40

- You can cancel the setting at any time by pressing and holding the **JOG** dial for more than 3 seconds. Repeat from the step ■.

Engage timer recording standby mode
Press **24HR QUICK PROGRAM**.
The VCR turns off automatically and "⊙" is displayed on the front display panel.

Timer warning display
A warning appears on the TV screen to tell you that the timer-recording is to start in 5 minutes if you are not in the timer recording standby mode at that time. Press **TIMER** to put the VCR into timer

–WARNING–
TIMER RECORDING
TO START SOON
(CANCEL)

recording standby mode. To clear the display, press **CANCEL** on the Remote.

Turn on the VCR and the TV, and select the VCR channel 3 or 4 (or AV mode) on the TV.

A –1

B –2

A –1 **B** –4

B –2

A –2, 3

B –3

B –2

JVC

Other Useful functions for timer recording
You can also use the following functions for timer recording.

● **Auto Timer** (☞ pg. 38)
When "AUTO TIMER" is set to "ON", the timer recording standby mode is automatically engaged when the VCR is turned off. It is temporarily canceled when the VCR is turned on. You do not have to press **TIMER** to engage or disengage the timer recording standby mode.

● **Auto SP → EP Timer** (☞ pg. 39)
If there is not enough tape to record the entire broadcast for recording in SP mode, the VCR automatically switches to EP mode to allow complete recording. This feature is especially handy when recording a broadcast of more than 2 hours in length.

A Checking program settings

1 Disengage timer
Press **TIMER**, then press **POWER**.

● When "AUTO TIMER" is set to "ON" (☞ pg. 37, 38), you do not have to press **TIMER**.

2 Access Program Check screen
Press **PROG. CHECK**.

PR	START	STOP	CH	DATE
1	8:00P	10:00	12	12/24
2	10:00A	10:45	40	12/25
3	11:30P	1:00	125	12/25
4				
5				
6				
7				
8				
PRESS (CHECK) TO NEXT				

3 Access Program screen
Press **PROG. CHECK** again to check more detailed information. Each time you press **PROG. CHECK**, the next program's Program screen appears. When all Program screens are shown, normal screen resumes.

B Canceling or changing program settings

1 Access Program screen
Repeat steps **1** to **3** above.

2 Cancel or change program setting
To cancel a program, press **CANCEL** when the Program screen you do not want is shown.

To change a program, press the appropriate button: **START+/–**, **STOP+/–**, **DATE+/–**, **CH+/–**, and/or **SP/EP** when the Program screen on which you want to make changes is shown.

3 Return to normal screen
Press **PROG. CHECK** as many times as necessary until no Program screen is shown.

4 Reengage timer recording standby mode
Press **TIMER**.

● When "AUTO TIMER" is set to "ON" (☞ pg. 37, 38), the timer recording standby mode automatically resumes when you turn off the VCR.

C –3
C –3
C –3
C –3
C –2
C –2

C When programs overlap each other

If "PROGRAM NOT COMPLETED PROGRAM OVERLAP" appears, you have another program overlapping the program you have just made.
The Program Check screen appears and conflicting programs will start blinking.

```
PROGRAM NOT COMPLETED

  PROGRAM OVERLAP
```
➡
```
PR  START  STOP   CH   DATE
1   8:00P  11:00  12   12/24
2   10:00A 10:45  40   12/25
3   11:30P 1:00   125  12/25
4   9:00P  10:00  10   12/24
5
6
7
8
(▲,▼), THEN (►) (PROG.) : END
```

EX. Program 1 (you have just made) and Program 4 overlap each other

1 Confirm overlapping programs
Overlapping programs blink on the screen.

2 Select program to modify
Press **SHUTTLE PLUS** △▽, then press **SHUTTLE PLUS** ▷.

• You can only select one of the overlapping programs.

NOTE:
If you do not mind this overlap, press **PROG.** *to finish the timer program setting. See "ATTENTION" to the right. Without doing anything for about 1 minute, the VCR will finish the timer programing.*

3 Cancel or change program setting

To cancel a program, press **CANCEL** when the Program screen you do not want is shown. "PROGRAM COMPLETED" appears on the screen for about 5 seconds, then normal screen appears.

```
          PROGRAM 4

START           STOP
9:00 PM    →    10:00PM
DATE            CH
12/24/00        10  SP
  SUN
PRESS (CANCEL) TO CANCEL
PRESS (OK) TO CONFIRM
PRESS (PROG.) TO END
```

To change a program, press the appropriate button: **START+/–**, **STOP+/–**, **DATE+/–**, **CH+/–**, and/or **SP/EP** when the Program screen on which you want to make changes is shown, then press **OK**. "PROGRAM COMPLETED" appears on the screen for about 5 seconds, then normal screen appears.

NOTE:
If the overlap is not yet solved or another overlap occurs with the timer program setting made last after making correction on a program, the conflicting programs will be shown on the Program Check screen again. Repeat the above steps again until the overlap is solved.
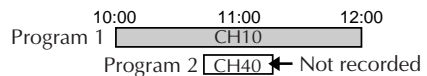

ATTENTION
If there is a conflict in the timer schedule and one program overlaps with another, only the parts shown below in gray will be recorded.
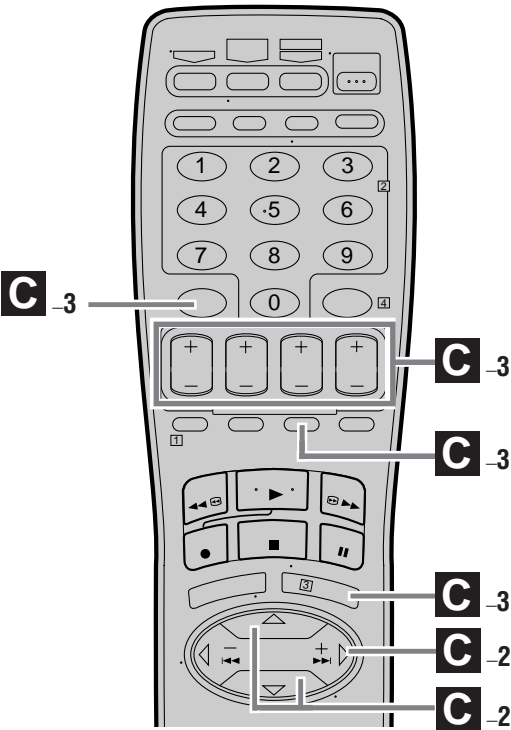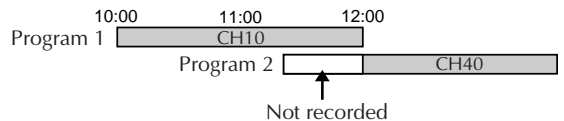
Pattern 1: *The program with the lower program number will be recorded.*

```
        10:00      11:00      12:00
Program 1 [      CH10       ]
Program 2 [      CH40       ] ← Not recorded
```

Pattern 2: *The program starting earlier will be recorded.*

```
        10:00      11:00      12:00
Program 1 [      CH10       ]
            Program 2 [ CH40 ] ← Not recorded
```

Pattern 3: *The program starting earlier will be recorded, followed by the remaining portion of the other program.*

```
        10:00      11:00      12:00
Program 1 [      CH10       ]
            Program 2 [    CH40        ]
                       ↑
               Not recorded
```

Useful Function Settings

Turn on the VCR and the TV, and select the VCR channel 3 or 4 (or AV mode) on the TV.
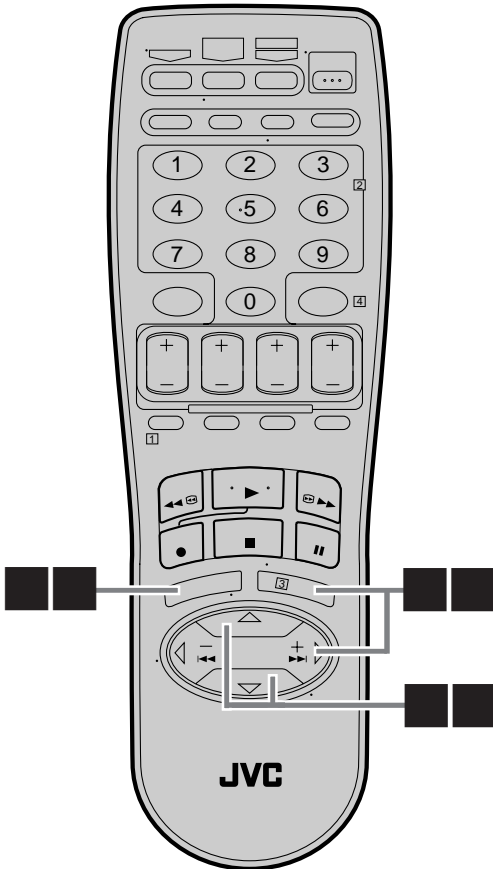
You can use the other useful function settings on the Function Set screen by following the procedure described below.
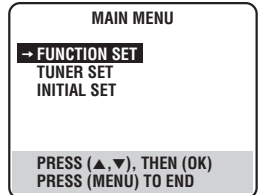● For the functions you can set on the Function Set screen, see pages 38 to 41.

Access Main Menu screen
Press **MENU**.

Access Function Set screen
Press **SHUTTLE PLUS** △▽ to move the highlight bar (arrow) to "FUNCTION SET", then press **OK** or **SHUTTLE PLUS** ▷.

```
         MAIN MENU

    → FUNCTION SET
      TUNER SET
      INITIAL SET


    PRESS (▲,▼), THEN (OK)
    PRESS (MENU) TO END
```

Select Function.
Press **SHUTTLE PLUS** △▽ to move the highlight bar (arrow) to the function you want to set.

```
        FUNCTION              PREVIOUS PAGE           PREVIOUS PAGE
  → VIDEO CALIBRATION      → DIGITAL R3          → REAR AUX INPUT    VIDEO
    PICTURE CONTROL          VIDEO STABILIZER       S-VHS ET            OFF
    AUTO TIMER               2ND AUDIO RECORD       RETURN POINT   TAPE END
    ON SCREEN (REC)          AUDIO MONITOR          DAY/TIME INSERT     OFF
    ON SCREEN (PLAY)         S-VHS MODE             REC SAFETY           ON
    AUTO SP→EP TIMER         FRONT AUX INPUT        DAILY T. RECORD    NORM
    NEXT PAGE                NEXT PAGE
  SELECT WITH (▲,▼) AND   SELECT WITH (▲,▼) AN   SELECT WITH (▲,▼) AND (OK)
  PRESS (MENU) TO END      PRESS (MENU) TO END    PRESS (MENU) TO END
```

Change setting
Press **OK** or **SHUTTLE PLUS** ▷.

Return to normal screen
Press **MENU**.

* The default setting is **bold** in the table below.

■ **VIDEO CALIBRATION** 　**ON** 　OFF	When this function is set to "ON", this VCR checks the condition of the tape in use during playback and recording, and compensates to provide the highest-possible pictures. This takes place whenever you play back a tape or start recording after inserting a tape. *NOTES:* ● *During playback, this function is always working even though "VIDEO CALIBRATION" appears just at the beginning of automatic tracking.* ● *During recording, this function works only for the first EP recording and the first SP recording on an inserted tape.* *For timer recording, this function checks the tape condition both for the SP recording and the EP recording before the first timer recording starts.* ● *When you play back rental tapes or tapes recorded on other VCRs, set this function either "ON" or "OFF" whichever gives you the best picture.*
■ **PICTURE CONTROL** 　**AUTO** (NORM): Normally select this. Picture quality is adjusted automatically. When "VIDEO CALIBRATION" is "OFF", "NORM" will appear instead of "AUTO". 　EDIT:　Minimizes picture degradation during editing (recording and playback). 　SOFT:　Reduces image coarseness when viewing overplayed tapes containing much noise. 　SHARP: Clearer, sharper-edged picture when viewing images with much flat, same-colored surfaces such as cartoons.	This function helps you to adjust the playback picture quality according to your preference. *NOTES:* ● *When you select "EDIT", "SOFT" or "SHARP", the selected mode will not change until you select again.* ● *Select "EDIT" when you are editing tapes (☞ pg. 45, 46, and 49). After you finish editing the tapes, select "AUTO" ("NORM" when "VIDEO CALIBRATION" is "OFF".)*
■ **AUTO TIMER** 　ON 　**OFF**	● **When this function is set to "ON":** The timer recording standby mode is automatically engaged when the VCR is turned off. It is temporarily canceled when the VCR is turned on. You do not have to press **TIMER** to engage or disengage the timer recording standby mode. ● **When this function is set to "OFF":** You have to press **TIMER** to engage or disengage the timer recording standby mode.
■ **ON SCREEN (REC)** 　**ON** 　OFF	When this function is set to "ON", all the indications displayed on screen will be recorded. If you do not want to record the indications, select "OFF". (☞ pg. 21) *NOTE:* ● *The setting you have made is kept in memory. Even if the VCR is unplugged or the power failure occurs, it will resume every time you turn on the VCR. (☞ pg. 9)*

* The default setting is **bold** in the table below.

■ **ON SCREEN (PLAY)** **ON** OFF	When this function is set to "ON", various VCR status information (on-screen display) appears on the screen during playback. *NOTES:* ● *When you use this VCR as the playback VCR for editing a tape, be sure to set this function to "OFF"; otherwise, the VCR status information (on-screen display) will be recorded on the edited tape.* ● *If you select a channel on which no signal is received, the channel number is displayed regardless of this function setting.* ● *The setting you have made is kept in memory. Even if the VCR is unplugged or the power failure occurs, it will resume every time you turn on the VCR. (☞ pg. 9)*
■ **AUTO SP → EP TIMER** ON **OFF**	When this function is set to "ON", the VCR automatically switches to EP mode to allow complete recording if there is not enough tape to record the entire program while timer-recording in SP mode. **For Example . . .** Recording a program of 140 minutes in length onto a 120-minute tape Approximately 110 minutes ⎪ Approximately 30 minutes <table><tr><td>SP mode</td><td>EP mode</td></tr></table> Make sure you set this function to "ON" before the timer-recording starts. *NOTES:* ● *If you have programed the VCR to timer-record 2 or more programs, the second program and those thereafter may not fit on the tape with this function set to "ON". In this case, do not use this function, but change the tape speed manually during timer programing.* ● *In order to ensure that the recording fits on the tape, this function may leave a slight non-recorded portion at the end of the tape.* ● *There may be some noise and sound disturbance where the tape speed switches from SP to EP mode on the tape.* ● *This function will not work properly on the following tapes: T(ST)-30, T(ST)-60, T(ST)-90, and T(ST)-120.*
■ **DIGITAL R3** **ON** OFF	When this function is set to "ON", edge correction to the luminance signal is performed to enhance details. Normally set this function to "ON". *NOTES:* ● *Depending on the type of tape being used, picture quality may be better with "DIGITAL R3" set to "OFF".* ● *If you use this VCR as the playback VCR for editing, be sure to set "DIGITAL R3" to "OFF" before starting.*
■ **VIDEO STABILIZER** ON **OFF**	When this function is set to "ON", you can automatically correct vertical vibrations in the picture when playing back unstable recordings made on another VCR. *NOTES:* ● *When you finish viewing a tape, be sure to set this function to "OFF".* ● *Regardless of the setting, this function has no effect during recording and during special effects playback.* ● *The on-screen display may jitter vertically when this function is set to "ON".* ● *To watch recordings with close-caption, set this function to "OFF".*

Refer to page 37 for setting procedures.

* The default setting is **bold** in the table below.

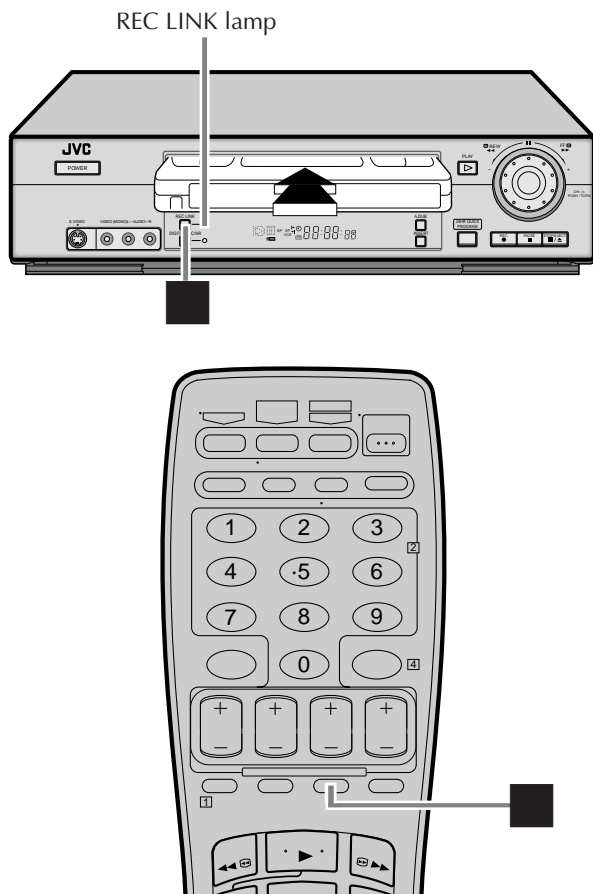|	
■ **2ND AUDIO RECORD** 　ON 　**OFF**	**When this function is set to "ON";** ● If a SAP program is received, the SAP audio is recorded on both the normal and Hi-Fi tracks. The main audio is not recorded. ● If a non-SAP program is received, the main audio is recorded on both the Hi-Fi and normal tracks. **When this function is set to "OFF",** the SAP audio cannot be recorded.
■ **AUDIO MONITOR** 　**HI-FI**: Normally select this. Hi-Fi sound is played back. 　HI-FI L: Sound on the left Hi-Fi channel is played back. 　HI-FI R: Sound on the right Hi-Fi channel is played back. 　NORM: Sound on the normal track is played back. 　MIX: Both sounds on the Hi-Fi track and normal track are mixed and played back.	This VCR can record two sound tracks simultaneously (normal and Hi-Fi) on a tape. You can select the sound track(s) to listen to while playing back a Hi-Fi stereo tape. In addition, when playing back a prerecorded tape containing two separate audio programs on the Hi-Fi tracks, you can choose either one by selecting either "HI-FI L" or "HI-FI R". *NOTES:* ● *While playing back a monaural tape, sounds on the normal track will be heard regardless of this setting.* ● *If RF connection (☞ pg. 7) is used for viewing pictures on the TV, sound will be monaural even though you select "HI-FI".* ● *You can also use the* **A. MONITOR** *button on the Remote to select the desired monitor sound. (☞ pg. 17)*
■ **S-VHS MODE** 　**ON** 　OFF	You can determine which recording mode — either S-VHS mode or VHS mode — is used for recording on S-VHS tapes. **When this function is set to "ON",** you can record on S-VHS tapes with S-VHS picture quality. **When this function is set to "OFF",** you can record on S-VHS tapes with VHS picture quality. *NOTES:* • *S-VHS mode allows you to make high quality video recordings with horizontal resolution of 400 lines, comparing with the 230 lines of resolution of conventional VHS recordings. To achieve the highest quality picture we recommended to record in S-VHS mode. (But remember that a conventional VHS VCR without SQPB cannot play back S-VHS tapes recorded in S-VHS mode.)* • *S-VHS MODE setting does not affect recording on VHS tapes. Recording on VHS tapes is always performed in VHS mode except when using S-VHS ET mode (☞ pg. 41).*
■ **FRONT AUX INPUT** 　**VIDEO** 　S-VIDEO	You have to select which terminal — either VIDEO (composite) or S VIDEO (Y/C separate signals) — to use as the video input terminal on the front panel. Make sure to select the correct terminal; otherwise, you may fail in recording (editing) on this VCR.
■ **REAR AUX INPUT** 　**VIDEO** 　S-VIDEO	You have to select which terminal — either VIDEO (composite) or S VIDEO (Y/C separate signals) — to use as the video input terminal on the rear panel. Make sure to select the correct terminal; otherwise, you may fail in recording (editing) on this VCR.

* The default setting is **bold** in the table below.

■ **S-VHS ET**
ON
OFF
	This function allows you to record on VHS tapes with S-VHS picture quality. Tapes recorded using this function can be played back on a VCR equipped with the S-VHS ET function. The S-VHS indicator lights up on the front display panel when "S-VHS ET" is set to "ON".
	NOTES:
	● *Before recording, make sure that "VIDEO CALIBRATION" is set to "ON". (☞ pg. 37, 38)*
	● *You cannot activate the S-VHS ET function...*
	  – while recording is in progress.
	  – while timer-recording is in progress.
	  – while Video Calibration (☞ pg. 38) is in progress.
	● *S-VHS ET does not work with S-VHS tapes.*
	● *To keep the highest quality recording and playback pictures over a long period of time, S-VHS recording on S-VHS tapes is recommended.*
	● *Use of high grade tapes are recommended for S-VHS ET recordings.*
	  On some tapes, picture quality will not improves even if the S-VHS ET function is used. Check the recording quality before you start important recordings.
	● *You can play back S-VHS ET recordings on most of S-VHS VCRs and of VHS VCR equipped with SQPB (S-VHS QUASI PLAYBACK) function. (Notice some VCRs are not compatible with this function.)*
	● *While playing back a tape recorded with this function on some tapes, noise may appear. (If playback picture becomes blurred or interrupted, use a cleaning cassette.)*
	● *During special effect playback (☞ pg. 26), noise may appear. If special effect playback is performed frequently on a tape recorded with this function, the tape may be damaged and picture may be deteriorated.*

■ **RETURN POINT** **TAPE END**: Playback stops at the end of tape. REC END: Playback stops at the end of the recording.	Returning point for Playback, Repeat Play or Series Playback can be set to tape end or recording end. (This VCR considers 1-second unrecorded portion as the recording end.) When the returning point is reached, playback stops and the cassette will be automatically rewound. *NOTE:* The setting you have made is kept in memory. Even if the VCR is unplugged or the power failure occurs, it will resume every time you turn on the VCR. (☞ pg. 9)
■ **DAY/TIME INSERT** ON **OFF**	When this function is set to "ON", you can record Month/Day/Year and clock time display (☞ pg. 61) with your picture. *NOTES:* ● *To use this function, be sure to set "ON SCREEN (REC)" to "ON". (☞ pg. 37, 38)* ● *The superimposed operational indicators on the screen will also be recorded.* ● *The setting you have made is kept in memory. Even if the VCR is unplugged or the power failure occurs, it will resume every time you turn on the VCR. (☞ pg. 9)* ● *This function is not available during Audio Dubbing or Insert Editing.*
■ **REC SAFETY** **ON** OFF	Usually, you can only record onto a cassette with its record safety tab intact. When the this function is set to "OFF", recording can be done onto a cassette whose record safety tab is removed. *NOTES:* ● *The setting you have made is kept in memory. Even if the VCR is unplugged or the power failure occurs, it will resume every time you turn on the VCR. (☞ pg. 9)* ● *When "REC SAFETY" is set to "OFF", playback does not start automatically when you insert a cassette with its record safety tab removed. (☞ pg. 15)*
■ **DAILY T. RECORD** **NORM** AUTO REW	When you set daily timer recording, you can use one cassette repeatedly. If you select "AUTO REW", the VCR rewinds tape each time after timer recording and the timer mode is engaged. If you select "NORM", the VCR turns off after timer recording. Rewinds the tape or replace it, and engage timer recording standby mode manually.

Refer to page 37 for setting procedures.

Satellite Auto Recording

REC LINK lamp

This function allows you to automatically record a satellite program which is timer-programed on your DBS receiver.

Preparation: Connect a DBS receiver to the AUDIO/ VIDEO IN or S VIDEO IN (L-1) connectors* on the rear; otherwise, you cannot use this function.
• You can also connect the cable box if it has a timer.
* *To use these connectors, you have to select which one to use (☞ pg. 40).*

Set timer program on DBS receiver
• For timer programing method, refer to the manual supplied with the DBS receiver.

Load a cassette
Make sure the record safety tab is intact.

Set tape speed
Press **SP/EP** (**⁄⁄⁄**) to set the recording speed.

Engage Satellite Auto Recording standby mode
Press **REC LINK** for more than 2 seconds.
The VCR turns off automatically and the REC LINK lamp lights (Satellite Auto Recording standby mode).
When signals come into the VCR from the DBS receiver, the VCR starts recording (the REC LINK lamp blinks), and stops recording and goes off when signals stop coming in.

• To disengage the Satellite Auto Recording standby mode, press **REC LINK**. The REC LINK lamp goes off.

IMPORTANT: Be sure not to turn on the DBS receiver before the program starts broadcasting; otherwise, the VCR will start recording when the DBS receiver is turned on.

NOTES:
• *While the Satellite Auto Recording standby mode or after Satellite Auto Recording is finished, the VCR will not enter the timer recording standby mode even though "AUTO TIMER" is set to "ON". (☞ pg. 37, 38)*
• *If you turn off this VCR while Satellite Auto Recording is in progress, recording stops.*
• *Video Calibration (☞ pg. 38) does not work while Satellite Auto Recording is in progress.*
• *Auto Clock (☞ pg. 11) does not work while in the Satellite Auto Recording standby mode.*
• *The VCR may not record a short portion at the beginning of the program or may record slightly longer than the actual length of the program when Satellite Auto Recording method is used.*
• *If you engage the Satellite Auto Recording standby mode while the DBS receiver is turned on, the VCR will not start Satellite Auto Recording even though the REC LINK lamp blinks. When you turn off and on the DBS receiver once again, the VCR starts recording.*
• *If you have connected another component other than a DBS receiver (or cable box) to the AUDIO/VIDEO IN or S VIDEO IN (L-1) connectors, be sure not to engage the Satellite Auto Recording standby mode; otherwise, the VCR will start recording when the connected component is turned on.*
• *Satellite Auto Recording and timer-recording cannot be performed at the same time.*
• *If the REC LINK lamp does not light but blinks quickly in the Satellite Auto Recording standby mode (even though your DBS receiver is turned off), Satellite Auto Recording will not work properly.*
  If this is the case, perform "Express Timer Programing" (☞ pg. 32) to timer-record a satellite program.
  (Some DBS receivers output signals even if the power is off. Satellite Auto Recording is not possible with those DBS receivers.)

Child Lock
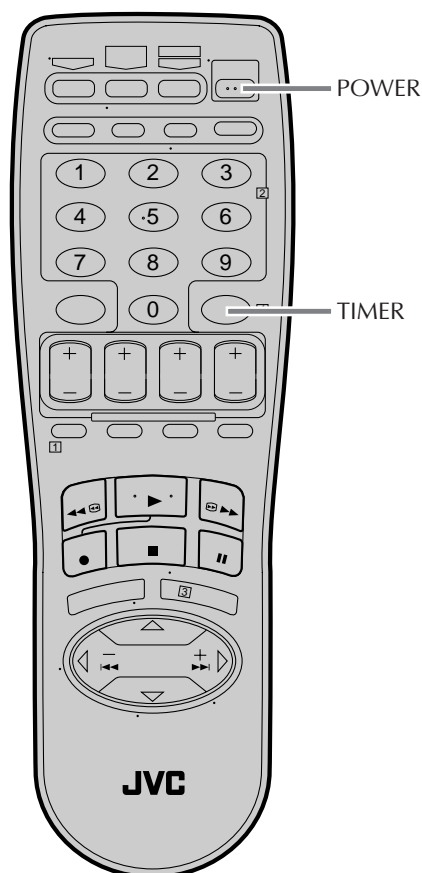
You can disable the VCR operations.
● You can only use the Remote for this operation.

While the VCR is turned on, press and hold POWER on the Remote for more than 10 seconds.
The VCR turns off, and "CL" appears on the front display panel for about 5 seconds, then the clock time appears again.

POWER

TIMER

```
                              ⌐ ⌐
                              ⌐ ⌐
```

● The child lock function is now activated and you cannot turn on the VCR by pressing **POWER** on the front panel.

To release the child lock, press and hold **POWER** on the Remote until the VCR turns on.
● Pressing **TIMER** during timer recording, unplugging the AC power cord or a power outage also releases the child lock.

NOTES:
● *When the child lock function is in use, keep the Remote out of the children's reach.*
● *Timer recording programs will be performed even if the child lock function is activated.*
● *If any button on the VCR or on the Remote is pressed when the child lock function is activated, "CL" appears on the front display panel for about 5 seconds, then the clock time appears again.*

JVC

Edit From Camcorder

Connection

This VCR (for recording)

To AUDIO/
VIDEO Input

Audio/video
cable
(supplied)

To S VIDEO
Input*

S-video cable
(supplied)

To Audio/video
output

To S-video
output

**Camcorder
(for playback)**
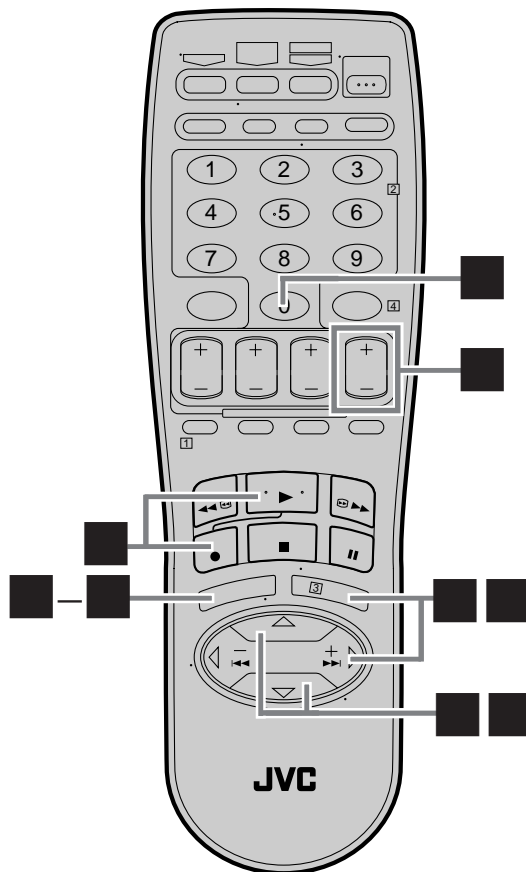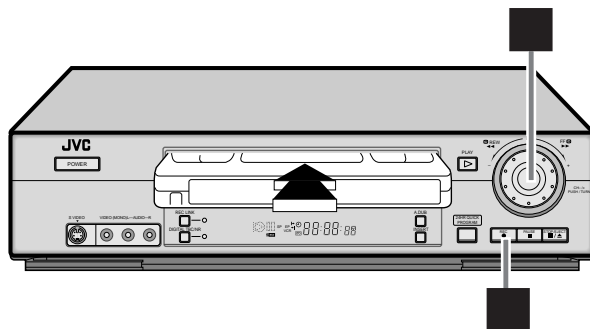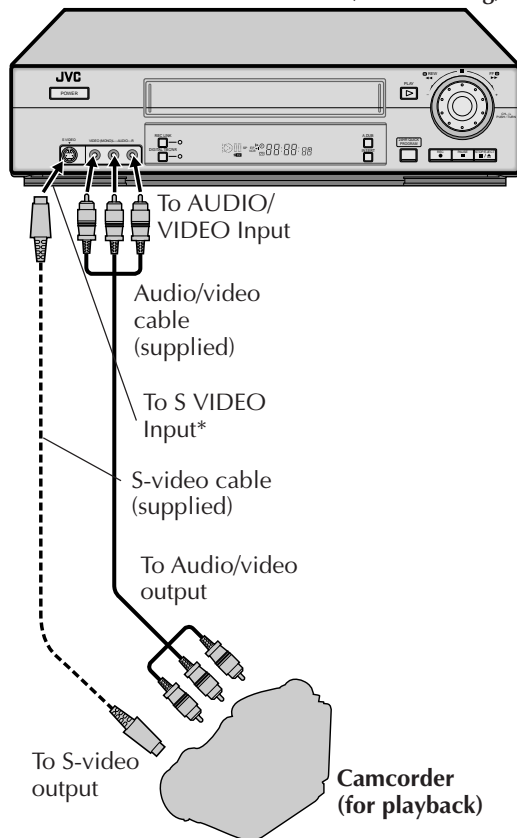
Various connection for editing tapes
The following three methods can be used for editing tapes.
- *VHS to S-VHS editing (VIDEO-VIDEO connection):*
  Although the picture quality is inherently limited by the original VHS quality, the edited tape has better picture quality than those made by VHS-to-VHS editing.
- *S-VHS to VHS editing (VIDEO-VIDEO connection):*
  Since the original source is recorded in S-VHS mode, the edited tape has better picture quality than those made by VHS-to-VHS editing.
- *S-VHS to S-VHS (S-VIDEO connection): Original picture quality of S-VHS made can be duplicated with minimal picture degradation. This is the best editing method you can use on S-VHS VCRs.*

You can use a camcorder as the playback VCR and your VCR as the recording VCR

Make connections

Connect an audio/video cable between the camcorder's audio/video output connectors and your VCR's audio/video input connectors.

● When using a camcorder with a monaural output, connect the audio output connector on the camcorder to the left audio input connector on this VCR.

Load a cassette

Insert the cassette to be recorded on into this VCR (for recording).

Select input mode on this VCR

Select "L-1" — when connecting the camcorder to the audio/video input connectors on the rear panel.
Select "F-1" — when connecting the camcorder to the audio/video input connectors on the front panel.

On the front panel:
Push the **JOG** dial, then turn it to the left or right.

On the Remote:
Press the **Number** key "**0 (AUX)**" and/or **CH +/−**.

Select video input terminal

Follow the procedure described on pages 37 and 40.
When using S VIDEO terminal, set "FRONT AUX INPUT" (or "REAR AUX INPUT" if you use the connectors on the rear) to "S-VIDEO".

When using VIDEO terminal, set "FRONT AUX INPUT" (or "REAR AUX INPUT") to "VIDEO".

Select edit mode

Follow the procedure described on pages 37 and 38.

Return to normal screen

Press **MENU**.

Start playback

Set the camcorder to its play mode.

NOTE:

If the camcorder is equipped with a superimpose/OSD disable feature then set it to "OFF" before starting playback.

Start recording

On the front panel:
Press **REC (●)**.

On the Remote:
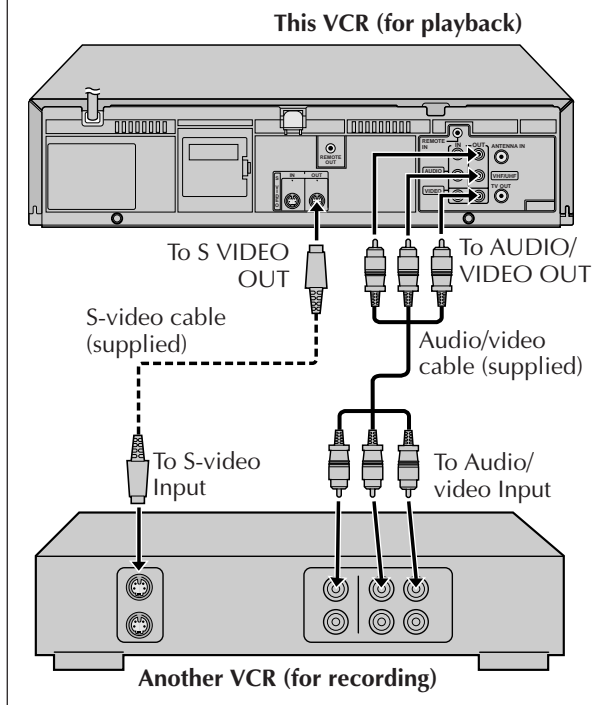Press **REC (●)** and **PLAY (►)** at the same time.

NOTE:

Be sure to select "AUTO" for "PICTURE CONTROL" (or "NORM" when "VIDEO CALIBRATION" is set to "OFF") after you finish dubbing the tapes (☞ pg. 37 and 38).

Edit To Or From Another VCR

Connection

Ex. When using this VCR as the playback VCR

This VCR (for playback)

To S VIDEO OUT

To AUDIO/ VIDEO OUT

S-video cable (supplied)

Audio/video cable (supplied)

To S-video Input

To Audio/ video Input

Another VCR (for recording)

You can use your VCR as the playback or recording VCR.
● Refer also to the other VCR's instruction manual for connection and its operations.

Make connections

Connect an audio/video cable between the playback VCR's audio/video output connectors and the recording VCR's audio/video input connectors.

● When using this VCR as the recording VCR, connect this VCR's audio/video input connectors to the audio/video output connectors on the other VCR.
If the playback VCR is monaural, connect the audio output connector on the playback VCR to the left audio input connector on this VCR.

Load cassettes

Insert the playback cassette into the playback VCR and the cassette to be recorded on into the recording VCR.

Select input mode on recording VCR

Select the correct external input on the other VCR.

● On this VCR (when using this VCR as the recording VCR);
Select "L-1" — when connecting the other VCR to the audio/video input connectors on the rear panel;
Select "F-1" — when connecting the other VCR to the audio/video input connectors on the front panel.

On the front panel:
Push the **JOG** dial, then turn it to the left or right.

On the Remote:
Press the **Number** key "**0 (AUX)**" and/or **CH +/–**.

Select video input terminal on recording VCR

When using this VCR as the recording VCR, follow the procedure described on pages 37 and 40.
When using S VIDEO terminal, set "FRONT AUX INPUT" (or "REAR AUX INPUT" if you use the connectors on the rear) to "S-VIDEO".

When using VIDEO terminal, set "FRONT AUX INPUT" (or "REAR AUX INPUT") to "VIDEO".

Select edit mode

On this VCR, set "PICTURE CONTROL" to "EDIT" by following the procedure described on pages 37 and 38.

Start playback

Press **PLAY (►)** on the playback VCR.

NOTE:

If the playback VCR is equipped with a superimpose/ OSD disable feature then set it to "OFF" before starting playback.
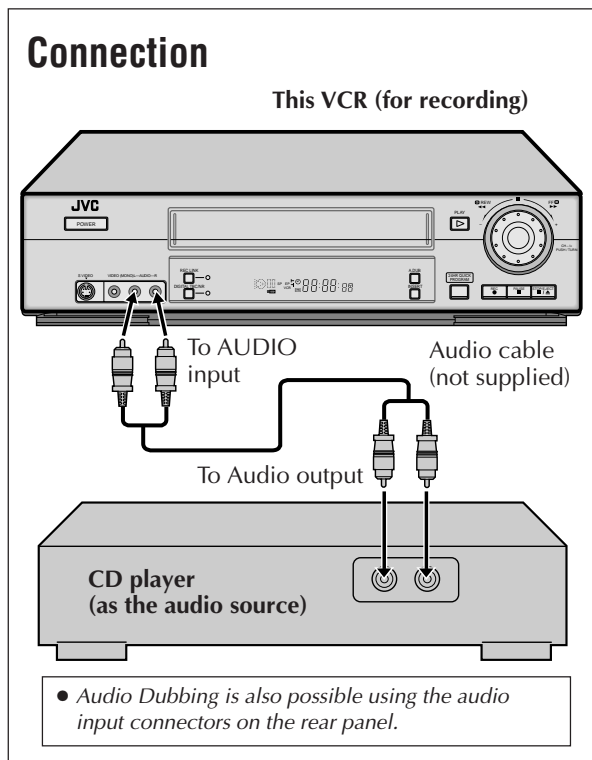
Start recording

Press **REC (●)** on the recording VCR.

NOTE:

Be sure to select "AUTO" for "PICTURE CONTROL" (or "NORM" when "VIDEO CALIBRATION" is set to "OFF") after you finish dubbing the tapes (☞ pg. 37 and 38).

Audio Dubbing

Connection

This VCR (for recording)

To AUDIO input

Audio cable (not supplied)

To Audio output

CD player (as the audio source)

● *Audio Dubbing is also possible using the audio input connectors on the rear panel.*

You can replace sounds recorded on the normal track with new sounds — for example, your favorite song played back on the CD player.
● Refer also to the other audio component's instruction manual for connection and its operations.

Normal track

Before audio dubbing

| A | B | C | D | E | F |

Video and Hi-Fi track

After audio dubbing

| A | B | C | D | E | F |
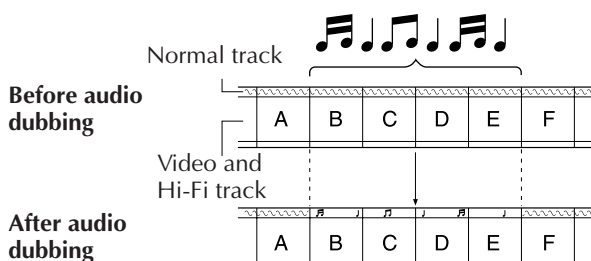
Make connections
Connect an audio cable between the VCR's audio input connectors and the audio component's audio output connectors.

● If the audio component is monaural, connect the AUDIO L (MONO) input connector on the VCR.

Load a cassette and prepare the audio source

Select input mode
Select "F-1" — when connecting the audio component to the audio input connectors on the front panel.
Select "L-1" — when connecting the audio component to the audio input connectors on the rear panel.

On the front panel:
Push the **JOG** dial, then turn it to the left or right.

On the Remote:
Press the **Number** key "**0 (AUX)**" and/or **CH +/–**.

Locate start point
❶ Press **PLAY** (►) to start playback.
❷ Press **PAUSE** (❙❙) when you find the beginning of the scene for which you want to audio-dub.

Activate editing mode
Press **A.DUB** on the front panel.
● The VCR enters the Audio Dubbing pause mode.
● ◯ blinks, and light up on the front display panel.

Start audio dubbing
Start playing the audio source and press **PLAY** (►) on this VCR.
● ◯ blinks and is displayed on the front display panel.

To stop audio dubbing
Press **STOP** (■) on the Remote or **STOP/EJECT** (■ / ⏏) on the front panel.
● Audio dubbing automatically stops when the counter reading becomes "0:00:00", and the VCR starts normal playback.

NOTES:
● *During Audio Dubbing, the sound recorded on the normal track is selected as the monitor sound. If you want to listen to the Hi-Fi or mixed sound (Hi-Fi sound and monaural sound), see "Selecting monitor sound — Audio Monitor" (☞ pg. 17).*
● *During Audio Dubbing, the VCR status indications on TV screen do not apear.*
● *"DAY/TIME INSERT" (☞ pg. 41) is not available during Audio Dubbing.*
● *Audio Dubbing cannot be performed on a tape with its record safety tab removed. If you want to record onto a tape with its record safety tab removed, set "REC SAFETY" to "OFF" (☞ pg. 37, 41).*
● *When playing back an audio-dubbed tape, select the sound you want. See "Selecting monitor sound — Audio Monitor" (☞ pg. 17).*
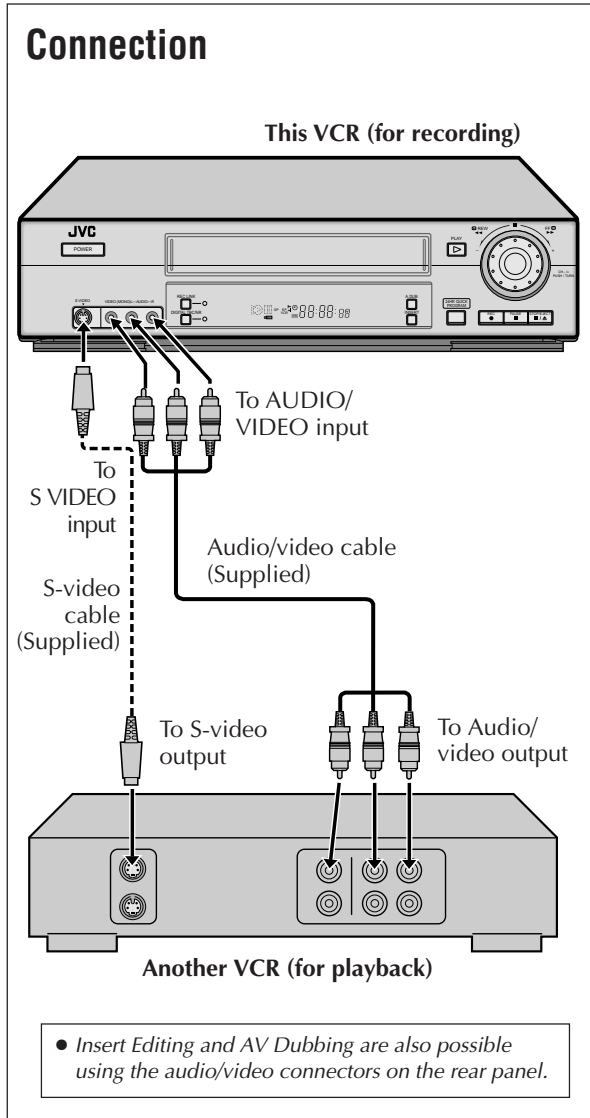● *Picture may be distorted if you pause Audio Dubbing.*

Insert Editing and AV Dubbing

Connection

This VCR (for recording)

To AUDIO/
VIDEO input

To
S VIDEO
input

Audio/video cable
(Supplied)

S-video
cable
(Supplied)

To S-video
output

To Audio/
video output

Another VCR (for playback)

● *Insert Editing and AV Dubbing are also possible
using the audio/video connectors on the rear panel.*

Refer also to the other component's instruction manual for connection and its operations.

Insert Editing: You can replace a recorded scene with new scene recorded on another tape or with other material. Both the picture and the sound recorded on the Hi-Fi sound track are replaced at the same time.

Audio/Video Dubbing: You can perform Audio Dubbing and Insert Editing at the same time. This means that the picture and the sounds recorded on the Hi-Fi sound track and on the normal track are replaced at the same time.

● For Audio/Video Dubbing, you can edit pictures and sound using different sources; connect a video source to the video input connector, and an audio source to the audio input connectors.

Insert Editing

Source tape

a	b	c	d	e	f

Edited tape

Before
editing

A	B	C	D	E	F

Normal track

After
editing

A	b	C	D	e	F

Video and Hi-Fi track

AV Dubbing

Source tape

a	b	c	d	e	f

Edited tape

Before
editing

A	B	C	D	E	F

After
editing

A	b	C	D	e	F
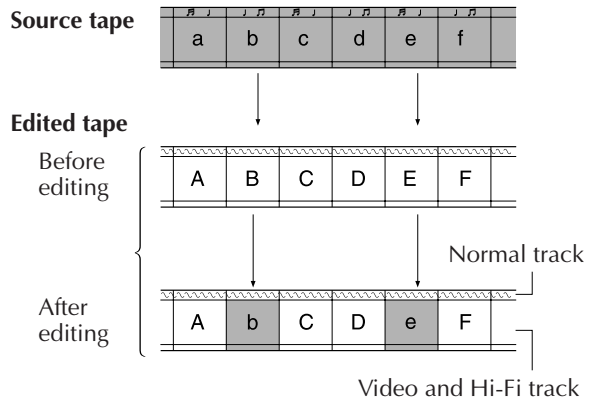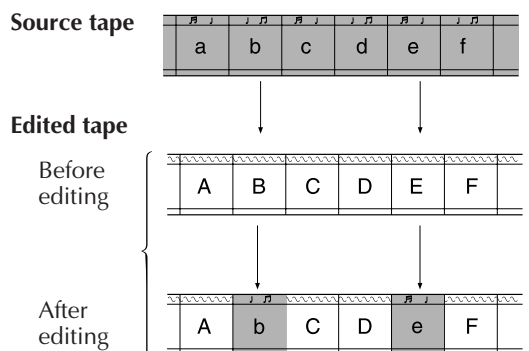
Make connections

Connect an audio/video cable between the VCR's audio/video input connectors and the other component's audio/video output connectors.

Prepare tapes

Load the source tape on the other VCR, and the tape to be edited on this VCR.

Select input mode

Select "F-1" — when connecting the other component to the audio/video input connectors on the front panel.

Select "L-1" — when connecting the other component to the audio/video input connectors on the rear panel.

On the front panel:
Push the **JOG** dial, then turn it to the left or right.

On the Remote:
Press the **Number** key "**0 (AUX)**" and/or **CH +/–**.

Select video input terminal

Follow the procedure described on pages 37 and 40.

When using S VIDEO terminal, set "FRONT AUX INPUT" (or "REAR AUX INPUT" if you use the connectors on the rear) to "S-VIDEO".

When using VIDEO terminal, set "FRONT AUX INPUT" (or "REAR AUX INPUT") to "VIDEO".

Select edit mode

On this VCR, set "PICTURE CONTROL" to "EDIT" by following the procedure described on pages 37 and 38.

Locate end point

❶ Press **PLAY** (►) to start playback.
❷ Press **PAUSE** (❚❚) when you find the end of the scene for which you want to edit.
❸ Press **C. RESET** so that the counter reading becomes "0:00:00".

NOTE:

*You can also use **REW** (◄◄) or **FF** (►►), or **JOG** dial to locate the end point (See "Special Effect Playback": ☞ pg. 26) .*

Locate start point

Use **REW** (◄◄) or **JOG** dial to reverse the tape (See "Special Effect Playback": ☞ pg. 26). When you find the begining of the scene you want to edit, press **PAUSE** (❚❚).

Activate editing mode

Press **INSERT** on the front panel.

● Make sure that the recording format (VHS, S-VHS or S-VHS ET) on the VCR is the same as that of the original recording on the tape.
● During Insert Editing pause mode (◯ , ▷ and ▦ light up on the front display panel.)
● For AV Dubbing, after pressing **INSERT**, press **A.DUB** also. During AV Dubbing insert pause mode (◯ and ▷ blink, and ▦ lights up on the front display panel.)

Start editing

Press **PLAY** (►) on this VCR, and start playback on the other component at the same time.

● During Insert Editing mode (◯ and ▷ light up on the front display panel.)
● During AV Dubbing mode (◯ and ▷ blink on the front display panel.)
● When the counter reading becomes "0:00:00", editing automatically stops, and the VCR starts normal playback.

To stop editing any time during recording

Press **STOP** (■) on the Remote or **STOP/EJECT** (■ / ▲) on the front panel.

NOTES:

● *Be sure to select "AUTO" for "PICTURE CONTROL" (or "NORM" when "VIDEO CALIBRATION" is set to "OFF") after you finish editing the tapes (☞ pg. 37 and 38).*
● *Editing cannot be performed on a tape with its record safety tab removed. If you want to record onto a tape with its record safety tab removed, set "REC SAFETY" to "OFF" (☞ pg. 37, 41).*
● *The recording speed (SP/EP) is determined by the previous recording to be replaced. If the recording speed changes on the tape to be edited while editing the tape, the inserted picture will be distorted where the recording speed changes.*
● *When you edit a tape, a small portion of the recording preceding to the editing start point will be erased from the edited tape.*
● *"DAY/TIME INSERT" (☞ pg. 41) is not available during Insert Editing.*

TV Brand Setting
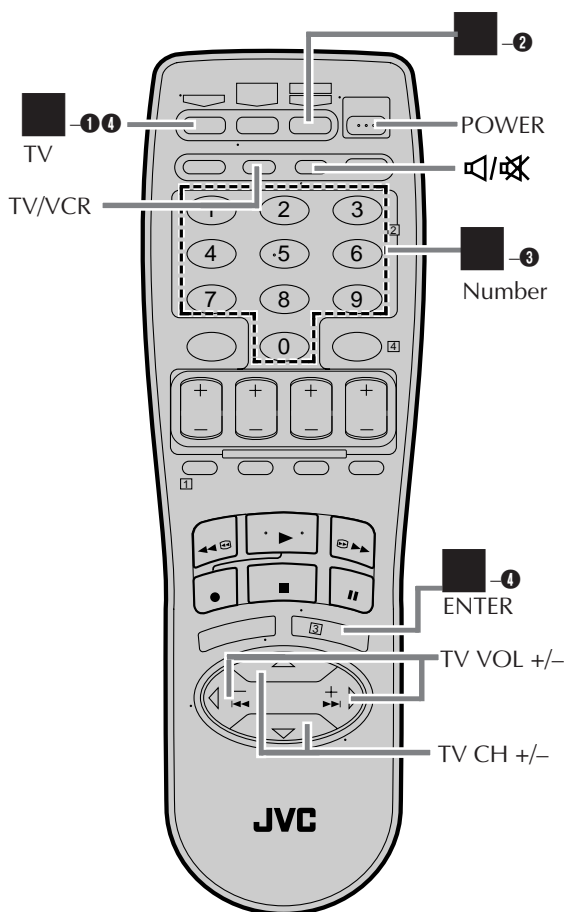
This Remote can control some functions of remote controllable TVs of the brands listed below. Without setting, you can control a JVC TV.

■ Turn on the TV

Turn on the TV using the Power button on the TV or its Remote.

■ Set TV brand code

Follow the example shown below.
❶ Press and hold **TV**.
❷ Press **MBR SET**.
❸ Press the **Number** keys to enter your TV's brand code by referring to the table below.
❹ Press **OK**, and release **TV**.
  The TV should turn off. If it does, try other operations below. (☞ step ■).

● Once you have set the Remote to operate the TV, you do not have to set it until you replace the batteries from the Remote.
● PANASONIC has two codes. If the TV does not function with one code, try entering the other.

■ Operate TV

While holding down **TV**, press one of the following buttons: **POWER**, **TV/VCR, TV CH +/–**, ◁/◁ (TV Muting), **TV VOL +/–**, and **Number** keys.

● For some brands, you must press **ENTER** after having pressed the **Number** keys to enter a channel number.

NOTES:
● *Depending on the type of TV, some or all functions cannot be operated using this Remote.*
● *It's not possible to operate a TV not equipped with a remote sensor.*

Diagram labels (remote control):
- –❷
- –❶❹ TV
- POWER
- ◁/◁
- TV/VCR
- –❸ Number
- –❹ ENTER
- TV VOL +/–
- TV CH +/–
- JVC

(Ex.) To set Remote to RCA 05:

TV ⇒ MBR SET A/B ⇒ 0 ⇒ 5 ⇒ ENTER/OSD OK ⇒ Release

Hold down   Press in succession
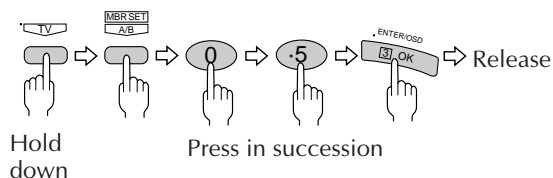
TV BRAND NAME	BRAND CODE
JVC	01, 03
HITACHI	10
MAGNAVOX	02
MITSUBISHI	03
PANASONIC	04, 11
RCA	05
SHARP	06
SONY	07
SAMSUNG	12
SANYO	13
SEARS	13
TOSHIBA	08
ZENITH	09

Cable Box Brand Setting

POWER

■■–❶❷
CABLE/DBS

■–❸
Number

■–❹
ENTER

TV CH +/–
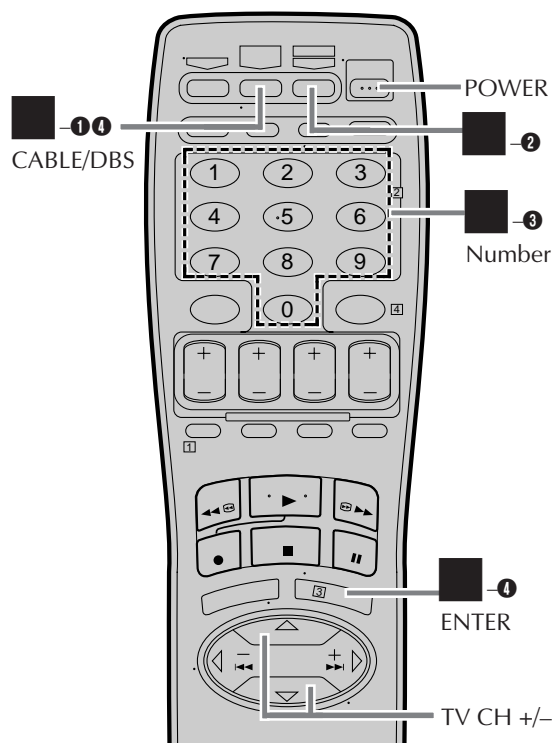
This Remote can control some functions of the cable boxes of the brands listed below. Some cable box brands have more than one code. If your cable box does not function with a specified code, try other codes.

Turn on the cable box

Turn on the cable box using the Power button on the cable box or its Remote.

Enter cable box brand code

Follow the example shown below.
❶ Press and hold **CABLE/DBS**.
❷ Press **MBR SET**.
❸ Press the **Number** keys to enter your cable box's brand code by referring to the table below.
❹ Press **OK**, and release **CABLE/DBS**.
 The cable box should turn off. If it does, try other operations below. (☞ step ■).

● Once you have set the Remote to operate the cable box, you do not have to set it until you replace the batteries from the Remote.

Operate cable box

While holding down **CABLE/DBS**, press one of the following buttons: **POWER**, **TV CH +/–**, and **Number** keys.

● For some brands, you must press **ENTER** after having pressed the **Number** keys to enter a channel number.
● To change the cable box's channels, press **TV CH +/–** or the **Number** keys. (The **CH +/–** button can be used to change the VCR's channels only.)

NOTES:
● *Depending on the type of cable box, some or all functions cannot be operated using this Remote.*
● *It's not possible to operate a cable box not equipped with a remote sensor.*
● *It's not possible to set the Remote for both your cable box and a DBS receiver at the same time. You can only set the Remote control to operate one of these units at a time.*

(Ex.) To set the Remote to RCA 14:
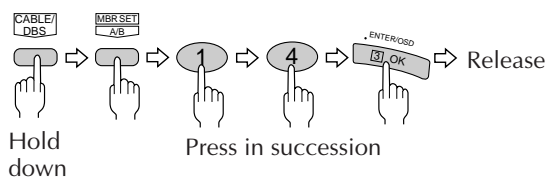
CABLE BOX BRAND NAME	BRAND CODE
ARCHER	01, 05, 17
CABLETENNA	01, 17
CABLEVIEW	15, 16, 17, 21, 25
CITIZEN	15, 16, 17, 21, 25
CURTIS	02
DIAMOND	01, 17
EASTERN	19
GC BRAND	15, 16, 17, 21, 25
GEMINI	15
GENERAL INSTRUMENTS	01, 04, 06, 11, 12, 15, 28
HAMLIN	10, 18, 19, 23
JASCO	15
JERROLD	01, 04, 06, 11, 12, 15, 28
NOVAVISION	02
OAK	07
PANASONIC	13, 14
PULSER	15, 16, 17, 21, 25
RCA	13, 14
REGAL	10, 18, 19, 23
REGENCY	19
REMBRANDT	01, 16, 17
SAMSUNG	05, 16, 24
SCIENTIFIC ATLANTA	02
SIGMA	07
SL MARX	05, 16, 17, 24, 25
SPRUCER	13, 14
STARGATE	05, 15, 16, 17, 21, 24, 25
TELEVIEW	05, 16, 24
TOCOM	01, 04, 16
UNIKA	01, 17
UNIVERSAL	16, 17, 25
VIDEOWAY	03, 09, 22
ZENITH	03, 09, 22

DBS Receiver Brand Setting

This Remote can control some functions of the DBS (Direct Broadcast Satellite) receivers of the brands listed below.

■ **Turn on the DBS receiver**
Turn on the DBS receiver using the Power button on the DBS receiver or its Remote.

■ **Enter DBS receiver brand code**
Follow the example shown below.
❶ Press and hold **CABLE/DBS**.
❷ Press **MBR SET**.
❸ Press the **Number** keys to enter your DBS receiver's brand code by referring to the table below.
❹ Press **OK**, and release **CABLE/DBS**.
The DBS receiver should turn off. If it does, try other operations below (☞ step ■).

● Once you have set the Remote to operate the DBS receiver, you do not have to set it until you replace the batteries from the Remote.

■ **Operate DBS receiver**
While holding down **CABLE/DBS**, press one of the following buttons: **POWER**, **TV CH +/–**, and **Number** keys.

● For some brands, you must press **ENTER** after having pressed the **Number** keys to enter a channel number.
● To change the DBS receiver's channels, press **TV CH +/–** or the **Number** keys. (The **CH +/–** button can be used to change the VCR's channels only.)

NOTES:
● *Depending on the type of DBS receiver, some or all functions cannot be operated using this Remote.*
● *It's not possible to operate a DBS receiver not equipped with a remote sensor.*
● *It's not possible to set the Remote for both your DBS receiver and a cable box at the same time. You can only set the Remote to operate one of these units at a time.*

POWER

■ –❷

■ –❶❹
CABLE/DBS

Number

■ –❸

ENTER

■ –❹

TV CH +/–

JVC
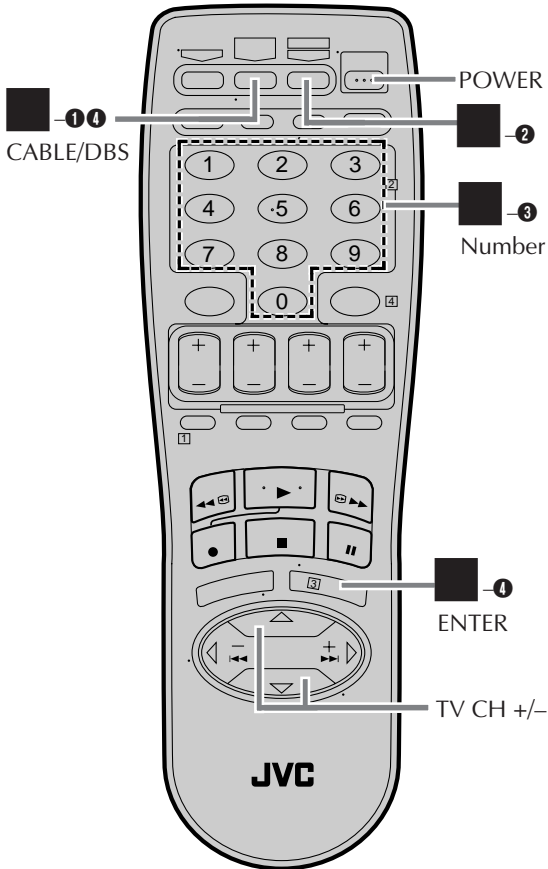
DBS BRAND NAME	BRAND CODE
JVC (DISH Network)	51
ECHOSTAR (DISH Network)	51
PRIMESTAR	50
SONY (DSS)	41
RCA (DSS)	40

(Ex.) To set the Remote to JVC 51:

CABLE/DBS ⇨ MBR SET A/B ⇨ ·5 ⇨ 1 ⇨ ENTER/OSD ③ OK ⇨ Release

Hold down   Press in succession
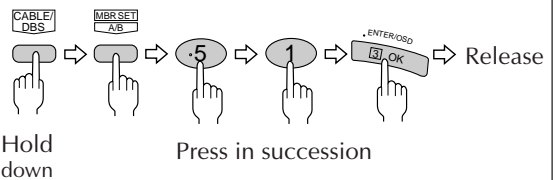
Changing Remote Control Code
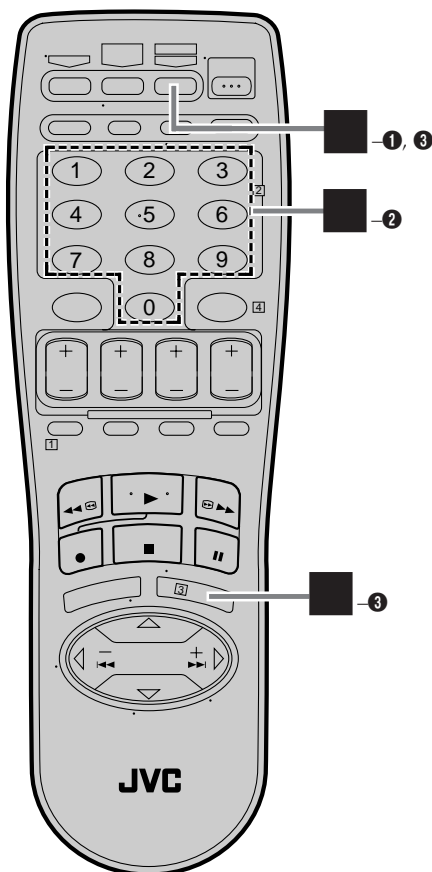
This Remote is capable of transmitting two control codes; one set to respond to A code control signals and another set to respond to B code control signals.
This Remote control is preset to send A code signals because your VCR is initially set to respond to A code signals. You can easily modify your VCR and the Remote to respond to B code control signals.
When using two JVC VCRs, set two VCRs and their Remotes to different codes, so that you can operate these VCRs separately.

Set remote control code for Remote
❶ Press and hold **A/B**.
❷ Press the **Number** key "**2**".
❸ Press **OK**, and release **A/B**.

● The Remote now can transmit B code control signals.

Check remote control code for VCR
Press and hold **PLAY (►)** on the VCR for more than 5 seconds while the VCR is turned off. The code currently set appears on the display panel.

Change code for VCR
Press any key on the Remote.

● The VCR now responds to B code control signals.
● To set the Remote and the VCR back to A code control signals, repeat the same procedure as shown above except pressing the **Number** key "**1**" in step ❷ of ■.

To control two VCRs with the same Remote
You can control two JVC VCRs by switching the remote control code for the Remote between A and B (☞ step ■), keeping two VCRs to different control codes.
● Press the **Number** key "**1**" for A code control signals and the **Number** key "**2**" for B code control signals. (To change only the remote control code for the Remote, DO NOT perform steps ■ and ■ .)

(Ex.) To set Remote to B code:

MBR SET A/B ⇨ 2 ⇨ ③ OK ⇨ Release

Hold down   Press in succession
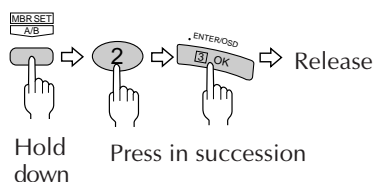
Before requesting service, use this chart and see if you can repair the trouble yourself. Small problems are often easily corrected, and this can save you from the trouble of sending your VCR off for repair.

POWER

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. The power will not come on.	• The AC power cord is disconnected. • Child lock is on.	Connect the AC power cord. Turn off child lock function (☞ pg. 43).
2. The clock works, but the VCR's power will not come on.	• The VCR is in the timer recording standby mode with "AUTO TIMER" set to "OFF" (☞ pg. 37, 38). • The child lock function is activated.	Press **TIMER** to disengage. Press and hold **POWER** on the Remote for more than 10 seconds to release the child lock function (☞ pg. 43).
3. The Remote will not function.	• The batteries are discharged. • Timer is on. • Remote control A/B code is wrong.	Replace batteries. Press **TIMER** button on the Remote. Reset A/B code (☞ pg. 53).

TAPE TRANSPORT

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. The cassette gets stuck partway during loading, and is ejected.	• The cassette was inserted incorrectly.	Make sure the cassette's window is facing up, the rear label side is facing you and the arrow on the front of the cassette is pointing towards the VCR. Then insert the cassette.

PLAYBACK

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. The tape is running but the picture will not appear.	• If the RF connection (☞ pg. 7) is used to view the picture, the channel on the TV is set incorrectly. • If the AV connection (☞ pg. 7) is used to view the picture, the TV receiver is set to the wrong mode.	Select channel 3 or 4 on the TV. Select the AV mode on the TV.
2. Breaks are noticeable in Hi-Fi sound track.	• Automatic tracking is engaged.	Disengage auto tracking and adjust the tracking manually (☞ pg. 17).
3. The playback picture is blurred or interrupted, even though TV broadcasts are clear. Or "USE CLEANING CASSETTE" appears on the screen.	• The video heads may be dirty.	The heads must be cleaned. Use a dry cleaning cassette –TCL-2UX– or consult your JVC dealer.
4. The Hi-Fi sound cannot be heard.	• Audio Monitor setting is incorrect.	Set Audio Monitor to "HI-FI" (☞ pg. 17 or 40).

RECORDING

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. Recording will not start.	• There is no cassette loaded. • "REC SAFETY" is set to "ON" and the loaded cassette has had its record safety tab removed.	Insert a cassette. Set "REC SAFETY" to "OFF" (☞ pg. 37, 41).
2. TV broadcasts will not be recorded properly.	• The VCR has been set to "L-1" or "F-1" input mode by mistake.	Select the appropriate channel on the VCR.
3. Tape-to-tape editing will not work.	• The components have been incorrectly connected, or correct video connector (S VIDEO or VIDEO) is not selected. • The power to one or more of the units has not been turned on. • The recording VCR's input mode has been set incorrectly.	Connect the components correctly (☞ pg. 44 – 49) or check "REAR AUX INPUT" or "FRONT AUX INPUT" setting (☞ pg. 37, 40). Make sure the power to all units is on. Select the appropriate input mode on the recording VCR.

TIMER RECORDING

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. Timer recording will not work.	● The clock and/or the timer have been set incorrectly. ● The timer is not engaged. ● The VCR has not been set up properly.	Set the clock and/or timer correctly. Press **TIMER** and make sure that ⏰ appears on the front display panel. Re-perform the set-up procedures. Make sure you have compensated for guide channel and VCR or cable box channel number mismatches (☞ pg. 30).
2. Timer programing will not work.	● Timer recording is in progress.	Timer programing cannot be performed when timer recording is in progress. Wait until it finishes.
3. ⏰ and 📼 on the front display panel will not stop blinking.	● The timer is engaged but there is no cassette loaded. ● "REC SAFETY" is set to "ON" and the loaded cassette has had its record safety tab removed.	Load a cassette with the record safety tab intact. If the tab is removed, set "REC SAFETY" to "OFF". (☞ pg. 37, 41) Set "REC SAFETY" to "OFF" (☞ pg. 37, 41) or replace the cassette with one on which the safety tab is intact.
4. ⏰ blinks for 10 seconds and the timer mode is disengaged.	● **TIMER** has been pressed when there are no programs in memory, or the timer recording program has not been set correctly.	Check the programed data and set again if necessary, then press **TIMER** again.
5. The power shuts off and ⏰ and 📼 will not stop blinking.	● The tape reaches its end during timer recording.	The program may not have been recorded in its entirety. Next time be sure you have enough time on the tape to record the entire broadcast.
6. You moved, and now VCR Plus+ system does not work properly.	● The receivable stations in the new area are received on different channels than those in the previous area.	Re-perform the Changing VCR Plus+ Setting procedure (☞ pg. 30).
7. "PROGRAM FULL" is displayed on the screen.	● All 8 programs of the VCR's timer memory are used.	Wait until a space in memory clears, or cancel unnecessary program information (☞ pg. 35).

OTHER PROBLEMS

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. When scanning channels, some of them are skipped over.	• Those channels have been preset to be skipped.	If you need the skipped channels, restore them (☞ pg. 14).
2. The channel cannot be changed.	• Recording is in progress.	Press **PAUSE (❙❙)** to pause the recording, change channels, then press **PLAY (►)** to resume recording.
3. The Remote will not operate your TV or cable box or DBS receiver.	• The brand codes are set incorrectly.	Reset the correct brand codes (☞ pg. 50, 51 or 52).
4. Even though Auto or Semiauto Clock Set has been performed, the clock is incorrect.	• The clock setting data received from the host channel is incorrect.	Select a different host channel during Semiauto Clock Set (☞ pg. 11), or perform Manual Clock Set (☞ pg. 12).
5. Buttons and controls do not function at all.	• Mode Lock is activated.	Press and hold **OK** on the Remote for more than 5 seconds to deactivate Mode Lock.

MOISTURE CONDENSATION

Moisture in the air will condense on the VCR when you move it from a cold place to a warm place, or under extremely humid conditions—just as water droplets form on the surface of a glass filled with cold liquid. Moisture condensation on the head drum will cause damage to the tape. In conditions where condensation may occur, keep the VCR turned on for a few hours to evaporate the moisture before inserting a tape.

ATTENTION

This VCR contains microcomputers. External electronic noise or interference can cause microcomputer to malfunction. If the VCR does not operate correctly switch its power off and unplug the AC power cord from the AC supply. Wait for a while and then plug the power cord back in. Eject and check the condition of the cassette. If everything appears normal, you can operate the VCR as usual.

Questions and answers

PLAYBACK

Q. What happens if the tape reaches its end during playback or search?

A. The VCR automatically rewinds it to the beginning.

....

Q. Can the VCR indefinitely remain in still mode?

A. No. It stops automatically after 5 minutes to protect the heads.

....

Q. During picture search, still picture playback and frame-by-frame playback, the picture is intermittent. What's the cause?

A. Picture loss occurs when these types of playback are attempted with a tape recorded in LP mode. Pressing **PLAY (►)** to return to normal playback will restore the picture.

....

Q. When returning from variable-speed picture search to normal playback, the picture is disturbed. Should I be concerned about this?

A. No, it is normal.

....

Q. When playing back programs that have been timer-recorded consecutively (such one program from 8:00 to 9:00 and another one from 9:00 to 10:00), the picture and sound become momentarily distorted where the first program ends and the second program begins. Is this a malfunction?

A. No. This is normal.

....

Q. Other than preventing further recording, what effect does removing the safety tab have?

A. It disables marking of index codes.

....

Q. Sometimes, during index search, the VCR cannot find the program I want to see. Why not?

A. There may be index codes too close together.

....

Q. During playback, on-screen display sometimes jitters. Why does this happen?

A. If the condition of the tape being played back is not good, jittering of the video (including on-screen display) may occur.

RECORDING

Q. When I pause and then resume a recording, the end of the recording before the pause is overlapped by the new recording. Why does this happen?

A. This is normal. It reduces distortion at the pause and resume points.

....

Q. Can the VCR indefinitely remain in the recording pause mode?

A. No. The VCR automatically stops after 5 minutes to protect the heads.

....

Q. What happens if the tape reaches its end during recording?

A. The VCR automatically rewinds it to the beginning.

TIMER RECORDING

Q. REC and ⏱ remain lit on the front display panel. Is there a problem?

A. No. This is a normal condition for a timer recording in progress.

....

Q. Can I program the timer while I'm watching a tape or a TV broadcast?

A. Yes, but while you are setting the timer you will not see the tape's or broadcast program's picture as it is replaced by the on-screen menu. (The sound from the tape or broadcast program will be heard during the timer setting.)

List of terms

This guide serves as a quick way to locate frequently used terms and on-screen display names.

Front panel

❶ POWER button : ☞ pg. 15, 19
❷ Cassette loading slot
❸ PLAY (▷) button : ☞ pg. 15
❹ Advanced JOG dial : ☞ pg. 15, 19, 26
❺ S VIDEO input connector : ☞ pg. 44, 48
❻ AUDIO/VIDEO input connectors : ☞ pg. 47, 48
❼ DIGITAL TBC/NR button and lamp: ☞ pg. 18
❽ REC LINK button and lamp : ☞ pg. 42

❾ Front display panel : ☞ pg. 60
❿ Remote sensor
⓫ INSERT button : ☞ pg. 49
⓬ A.DUB button : ☞ pg. 47
⓭ 24HR QUICK PROGRAM button : ☞ pg. 34
⓮ REC (●) button : ☞ pg. 19, 20
⓯ PAUSE (‖) button : ☞ pg. 19, 27
⓰ STOP/EJECT (■ / ▲) button : ☞ pg. 15, 19

Front display panel
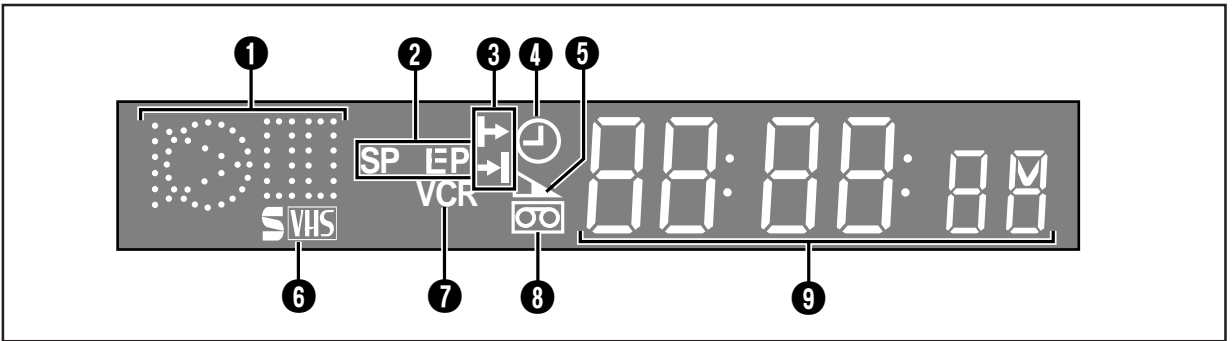
❶ Symbolic Mode Indicators

		STILL: SLOW:	▷▓
PLAY: FF/REW VARIABLE SHUTTLE SEARCH:	▷	RECORD:	○
		RECORD PAUSE:	○▓
AUDIO DUBBING:			☼
AUDIO DUBBING PAUSE:			☼▓
INSERT:			◌
INSERT PAUSE:			◌▓
AUDIO DUBBING INSERT:			☼
AUDIO DUBBING INSERT PAUSE:			☼▓

❷ Tape speed indicators
❸ Program start time and stop time indicator :
  ☞ pg. 34
  Mode Lock indicators : ☞ pg. 15, 16, 20, 21,
  23, 25
❹ Timer mode indicator : ☞ pg. 29, 33
❺ Tape remaining time indicator : ☞ pg. 16, 20
❻ S-VHS indicator : ☞ pg. 15, 41
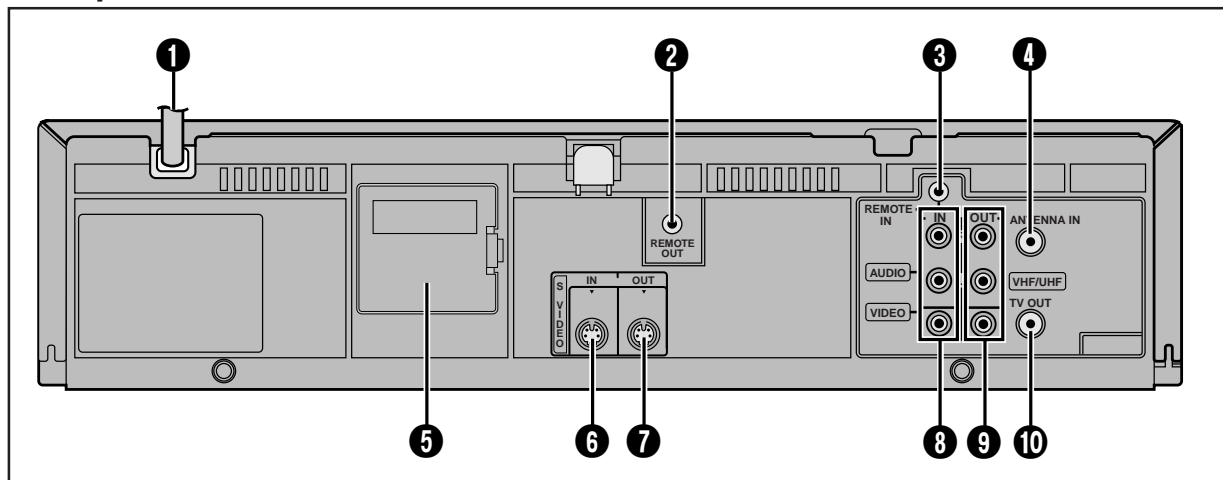**❼** VCR mode indicator : ☞ pg. 19, 20
❽ Cassette mark
❾ Channel and auxiliary input ("L-1" and "F-1")
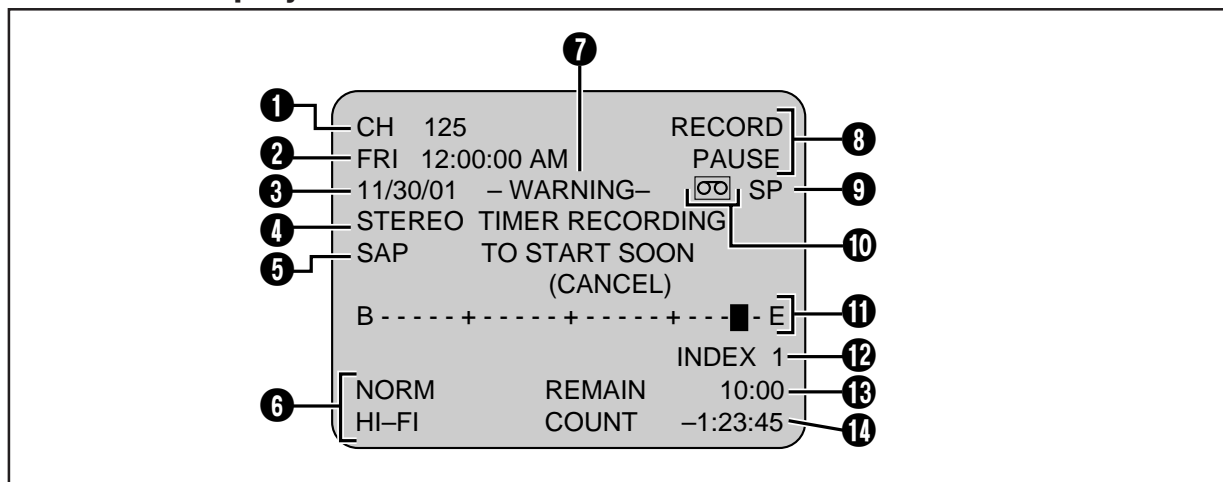 Counter reading : ☞ pg. 16, 20
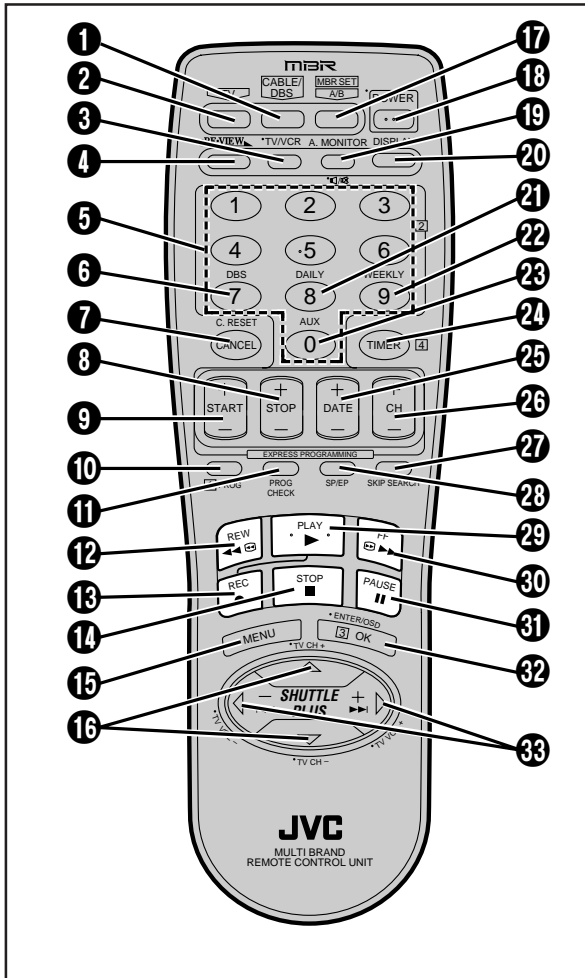 Clock time : ☞ pg. 16, 20

Rear panel

❶ AC power cord : ☞ pg. 6
❷ REMOTE OUT terminal :
  ☞ pg. 22, 24
❸ REMOTE IN terminal : ☞ pg. 22, 24
  *For the Remote Control Unit RM-G30
   (not supplied).
❹ ANTENNA IN terminal : ☞ pg. 6

❺ Lithium battery compartment: ☞ pg. 7
❻ S VIDEO IN connector : ☞ pg. 48
❼ S VIDEO OUT connector : ☞ pg. 6
❽ AUDIO/VIDEO IN connectors : ☞ pg. 48
❾ AUDIO/VIDEO OUT connectors : ☞ pg. 46
❿ TV OUT terminal : ☞ pg. 6

On-screen display


```
❶ CH  125                    RECORD      ❽
❷ FRI  12:00:00 AM           PAUSE
❸ 11/30/01  –WARNING–       [⊙⊙] SP      ❾
❹ STEREO  TIMER RECORDING
❺ SAP     TO START SOON                  ❿
              (CANCEL)
   B - - - - - + - - - - - + - - - - - + - - ▉ - E   ⓫
                            INDEX 1      ⓬
❻ NORM       REMAIN    10:00             ⓭
   HI–FI      COUNT    –1:23:45          ⓮
```

❶ Channel and auxiliary input ("L-1" and "F-1")
❷ Day and clock time
❸ Month/Day/Year
❹ STEREO program indication : ☞ pg. 21
❺ SAP (Second Audio Program) indication :
  ☞ pg. 21
❻ Audio monitor indications : ☞ pg. 17, 40
❼ Timer warning display : ☞ pg. 34

❽ VCR operation mode indication
❾ Tape speed indication
❿ Cassette indication
⓫ Tape position indicator : ☞ pg. 16
⓬ Index no. indication : ☞ pg. 17
⓭ Tape remaining time : ☞ pg. 16, 20
⓮ Time counter : ☞ pg. 16, 20

Remote

❶ CABLE/DBS button : ☞ pg. 51, 52
❷ TV button: ☞ pg. 50
❸ TV/VCR button : ☞ pg. 19, 21, 50
❹ REVIEW button : ☞ pg. 18
❺ Number buttons : ☞ pg. 19, 28, 31
❻ DBS button (No function)
❼ CANCEL button : ☞ pg. 29, 35
   C. (Counter) RESET button : ☞ pg. 16, 20
❽ STOP +/– button : ☞ pg. 29, 32
❾ START +/– button : ☞ pg. 32
❿ PROG. (Program) button : ☞ pg. 28, 32
⓫ PROG. CHECK button : ☞ pg. 35
⓬ REW (◄◄ ◄◄) button : ☞ pg. 15, 19, 26
⓭ REC (●) button : ☞ pg. 19, 20
⓮ STOP (■) button : ☞ pg. 15, 16
⓯ MENU button : ☞ pg. 37
⓰ SHUTTLE PLUS △▽ buttons
   TV CH +/– buttons : ☞ pg. 50, 51, 52
⓱ MBR SET button : ☞ pg. 50, 51, 52
   A/B button : ☞ pg. 53
⓲ POWER button : ☞ pg. 17, 19
⓳ A. (Audio) MONITOR button : ☞ pg. 17
   ◁/◁✕ (TV Muting) button : ☞ pg. 50
⓴ DISPLAY button : ☞ pg. 16, 20
㉑ DAILY button : ☞ pg. 29, 33
㉒ WEEKLY button : ☞ pg. 29, 33
㉓ AUX button : ☞ pg. 45, 46, 47, 49
㉔ TIMER button : ☞ pg. 29, 33, 35
㉕ DATE +/– button : ☞ pg. 32
㉖ CH +/– button : ☞ pg. 19, 32
㉗ SKIP SEARCH button : ☞ pg. 27
㉘ SP/EP button : ☞ pg. 19, 29, 33
㉙ PLAY (►) button: ☞ pg. 15, 19
㉚ FF (►► ►►) button: ☞ pg. 15, 19, 26
㉛ PAUSE (❚❚) button: ☞ pg. 19, 27
㉜ OK button
   ENTER button : ☞ pg. 50, 51, 52
   OSD button : ☞ pg. 21
㉝ SHUTTLE PLUS ◄◄ ►► (◁ ▷) button
   : ☞ pg. 27
   TV VOL +/– button : ☞ pg. 50

The glow-in-the-dark buttons shown in white on the illustration above are helpful when using the Remote in darkened rooms.

Buttons with a small dot on the left side of the name can also be used to operate your TV while holding down **TV** on the Remote. (☞ pg. 50).

How to use the Remote
Before use, insert two AA size batteries into the Remote with the polarity (⊕ and ⊖) matched correctly as indicated on the battery compartment or on the lid.

The Remote can operate most of your VCR's functions, as well as basic functions of TV sets, cable boxes and DBS receivers.
● Point the Remote toward the remote sensor on the target component.
● The maximum operating distance of the remote control is about 8 m.

NOTE:
If the Remote does not work properly, remove its batteries, wait for a few seconds, replace the batteries and then try again.

GENERAL

Power requirement	: AC 120 V∿ , 60 Hz
Power consumption	
Power on	: 20 W
Power off	: 2.5 W
Temperature	
Operating	: 5°C to 40°C (41°F to 104°F)
Storage	: –20°C to 60°C (–4°F to140°F)
Operating position	: Horizontal only
Dimensions (W x H x D)	: 400 mm x 94 mm x 283 mm
Weight	: 3.4 kg
Format	: S-VHS/VHS NTSC standard
Maximum recording time	
SP	: 210 min. with ST-210 video cassette
EP	: 630 min. with ST-210 video cassette

VIDEO/AUDIO

Signal system	: NTSC-type color signal and EIA monochrome signal, 525 lines/60 fields
Recording/ Playback system	: DA-4 (Double Azimuth) head helical scan system
Signal-to-noise ratio	: 45 dB
Horizontal resolution	
VHS	: 230 lines
S-VHS	: 400 lines
Frequency range	
Normal audio	: 70 Hz to 10,000 Hz
Hi-Fi audio	: 20 Hz to 20,000 Hz
Input/Output	: RCA connectors (IN x 2, OUT x 1) S-video connectors (IN x 2, OUT x 1)

TUNER

Tuning system	: Frequency-synthesized tuner
Channel coverage	
VHF	: Channels 2–13
UHF	: Channels 14–69
CATV	: 113 Channels
RF output	: Channel 3 or 4 (switchable; preset to Channel 3 when shipped) 75 ohms, unbalanced

TIMER

|	
Clock reference	: Quartz
Program capacity	: 1-year programmable timer/ 8 programs
Memory backup time	: Approx. 6 months Estimated figure based on supplied fresh battery; actual performance may differ.

ACCESSORIES

Provided accessories	: Infrared remote control unit, "AA" battery x 2, Lithium battery CR2025, S-video cable (4-pin), RF cable (F-type), Audio/video cable, BNC/RCA adapter x 2

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

Usable cassettes
Full-Size VHS
T-30 (ST-30**)
T-60 (ST-60**)
T-90
T-120 (ST-120**)
T-160 (ST-160**)
ST-210**

Compact VHS*
TC-20 (ST-C20**)
TC-30 (ST-C30**)
TC-40 (ST-C40**)
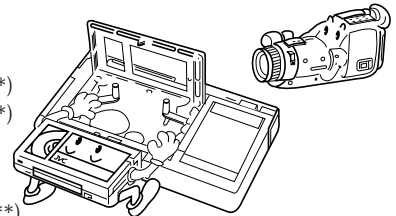
* Compact VHS camcorder recordings can be played on this video recorder. Simply place the recorded cassette into a VHS Cassette Adapter and it can be used just like any full-sized VHS cassette.

** This VCR can record on regular VHS and Super VHS cassettes. While only VHS signals can be recorded on regular VHS cassettes [1], both VHS and Super VHS signals can be recorded and played back using Super VHS cassettes.

[1] *By using the S-VHS ET function, it is possible to record and play back with S-VHS picture quality on VHS cassettes on this VCR.*

JVC

VICTOR COMPANY OF JAPAN, LIMITED