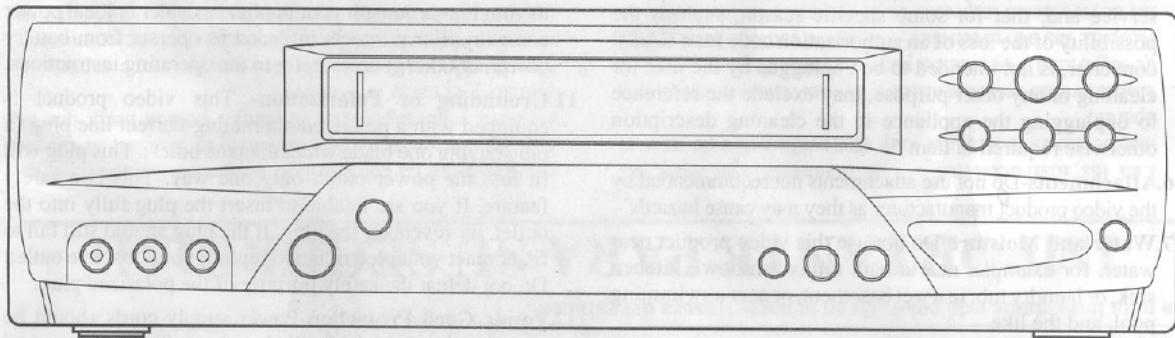


OWNER'S MANUAL

SYLVANIA

VIDEO CASSETTE RECORDER LV446G



If you need additional assistance for set-up or operating
after reading owner's manual, please call
TOLL FREE : 1-800-968-3429 (Eastern time 9:00AM-4:30PM / Monday - Friday).

VHS

Please read before using this equipment.

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



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.



THIS SYMBOL INDICATES THAT DANGEROUS VOLTAGE CONSTITUTING A RISK OF ELECTRIC SHOCK IS PRESENT WITHIN THIS UNIT.



THIS SYMBOL INDICATES THAT THERE ARE IMPORTANT OPERATING AND MAINTENANCE INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.

The caution marking is located on the rear of the cabinet.

IMPORTANT SAFEGUARDS

- 1. Read instructions**-All the safety and operating instructions should be read before the appliance is operated.
- 2. Retain Instructions**-The safety and operating instructions should be retained for future reference.
- 3. Heed Warnings**-All warnings on the appliance and in the operating instructions should be adhered to.
- 4. Follow Instructions**-All operating and use instructions should be followed.
- 5. Cleaning**-Unplug this video product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
EXCEPTION: A product that is meant for uninterrupted service and, that for some specific reason, such as the possibility of the loss of an authorization code for a CATV converter, is not intended to be unplugged by the user for cleaning or any other purpose, may exclude the reference to unplugging the appliance in the cleaning description otherwise required in item 5.
- 6. Attachments**-Do not use attachments not recommended by the video product manufacturer as they may cause hazards.
- 7. Water and Moisture**-Do not use this video 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.
- 8. Accessories**-Do not place this video product on an unstable cart, stand, tripod, bracket, or table. The video product may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the video product. Any mounting of the appliance should follow the manufacturer's instructions and should use a mounting accessory recommended by the manufacturer. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the ap-

PORTABLE CART WARNING
(Symbol provided by RETAC)

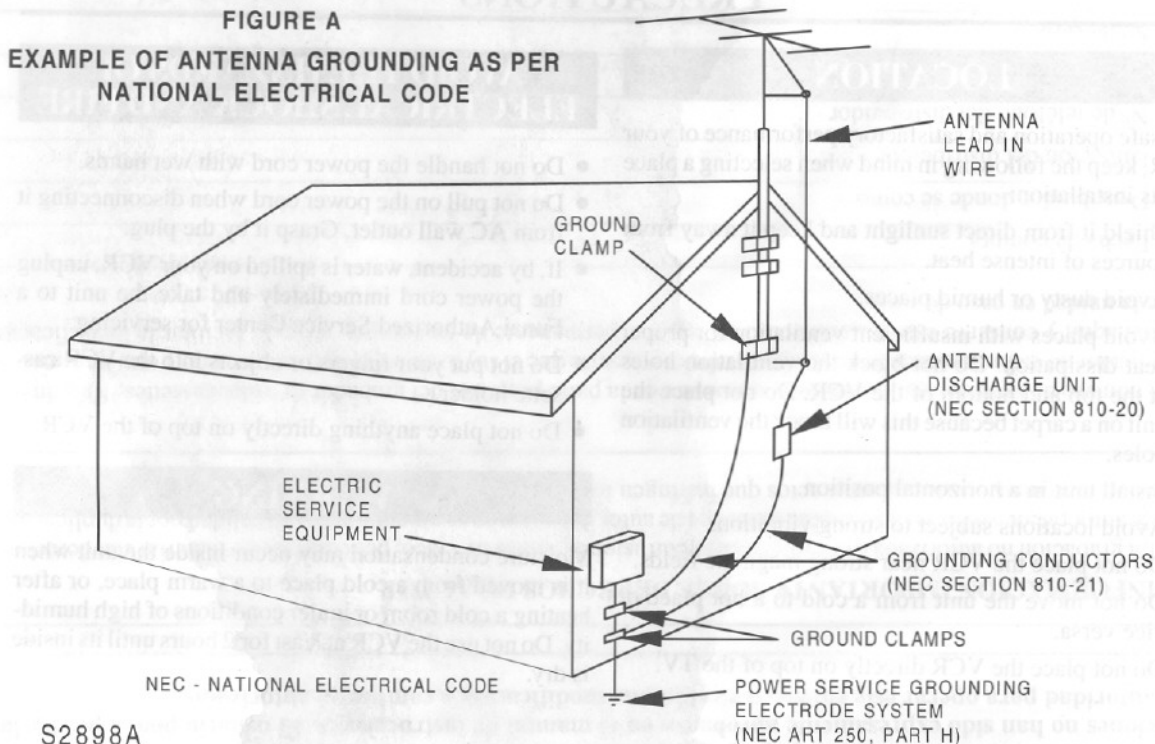


S3125A

pliance and cart combination to overturn.

- 9. Ventilation**-Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the video product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the video product on a bed, sofa, rug, or other similar surface. This video product should not be placed 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.
- 10. Power Sources**-This video product should be operated 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 appliance dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
- 11. Grounding or Polarization**-This video product is 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.
- 12. 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 appliance.
- 13. Outdoor Antenna Grounding**-If an outside antenna or cable system is connected to the video 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 No. 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 conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. (Fig. A)

FIGURE A
EXAMPLE OF ANTENNA GROUNDING AS PER
NATIONAL ELECTRICAL CODE



S2898A

14. Lightning-For added protection for this video 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 video product due to lightning and power-line surges.

15. 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.

16. Overloading-Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

17. Object and Liquid Entry-Never push objects of any kind into this video product through any 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 video product.

18. Servicing-Do not attempt to service this video product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

19. Damage Requiring Service-Unplug this video product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power-supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the video product.
- If the video product has been exposed to rain or water.

- If the video 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 video product to its normal operation.
- If the video product has been dropped or damaged in any way.

f. When the video product exhibits a distinct change in performance-this indicates a need for service.

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

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

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

PRECAUTIONS

LOCATION

For safe operation and satisfactory performance of your VCR, keep the following in mind when selecting a place for its installation:

- Shield it from direct sunlight and keep it away from sources of intense heat.
- Avoid dusty or humid places.
- Avoid places with insufficient ventilation for proper heat dissipation. Do not block the ventilation holes at the top and bottom of the VCR. Do not place the unit on a carpet because this will block the ventilation holes.
- Install unit in a horizontal position.
- Avoid locations subject to strong vibration.
- Do not place the VCR near strong magnetic fields.
- Do not move the unit from a cold to a hot place or vice versa.
- Do not place the VCR directly on top of the TV.

AVOID THE HAZARDS OF ELECTRICAL SHOCK AND FIRE

- Do not handle the power cord with wet hands.
- Do not pull on the power cord when disconnecting it from AC wall outlet. Grasp it by the plug.
- If, by accident, water is spilled on your VCR, unplug the power cord immediately and take the unit to a Funai Authorized Service Center for servicing.
- Do not put your fingers or objects into the VCR cassette holder.
- Do not place anything directly on top of the VCR.

WARNING

Moisture condensation may occur inside the unit when it is moved from a cold place to a warm place, or after heating a cold room or under conditions of high humidity. Do not use the VCR at least for 2 hours until its inside is dry.

FCC WARNING- This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

IMPORTANT COPYRIGHT INFORMATION

Unauthorized recording or use of broadcast television programming, video tape, film or other copyrighted material may violate applicable copyright laws. We assume no responsibility for the unauthorized duplication, use, or other acts which infringe upon the rights of copyright owners.

The serial number of this product may be found on the back of the VCR. No others have the same serial number as yours. You should record the number and other vital information here and retain this book as a permanent record of your purchase to aid identification in case of theft.

Date of Purchase	
Dealer Purchase from	
Dealer Address	
Dealer Phone No.	
Model No.	
Serial No.	

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FEATURES

- **Hi-Fi system**—The Hi-Fi stereo recording system offers you super sound quality with a dynamic range of 80dB and frequency response from 20Hz to 20kHz and 0.005% wow and flutter.
- **Rotary 4-head Record/Playback System**—4-heads to ensure excellent picture quality and special effects playback.
- **Bilingual on-screen menu display selectable in English or Spanish**
- **Infrared remote control**
- **Real time tape counter**—This shows the elapsed recording or playback time in hours, minutes, and seconds. (not in the case of blank portion)
- **181 channel capability PLL frequency synthesizer tuner with direct station call**—(A converter may be necessary to view scrambled cable channels.)
- **Auto power on and off system**—Automatically turns the VCR on as you insert the cassette, turns off after auto-rewind, and ejects when the beginning of the tape is reached.
- **Auto counter reset**—(when inserting a tape)
- **Auto rewind when the end of a tape is reached**—(not when using the timer recording).
- **Direct Button Operation**—When a tape is in the VCR and the power is off, just press PLAY, REW or F.FWD button on the main unit and it will automatically turn on the VCR and playback, rewinding or fast-forwarding will start immediately. (not when using the timer recording).
- **2 Step Picture Search Operation**—You can view a video program at a high speed or super high speed in either a forward or reverse direction in LP and SLP mode.
- **Still**—"Freeze" the picture at any time, for close viewing of a particular scene.
- **Digital Auto Tracking (DTR)**—Adjusts the tracking automatically for each tape you play.
- **Auto Repeat**—Allows you to repeat a tape indefinitely without pressing the PLAY button.
- **Rental Play Mode**—Improves playback picture quality of worn tapes, especially rental tapes.
- **Three different tape speeds : SP/LP/SLP**
- **OTR (One Touch Recording)**—Instant timed recording from 30 to 480 minutes is possible at the push of the REC/OTR button.
- **1 Year, 7 events (including Daily and Weekly Timer Recording)**—The built-in timer allows you to record up to 7 programs at different times on different channels up to 1 year in advance. The daily timer allows recordings to be made of daily broadcasts, and the weekly timer allows recording to be made once a week up to the end of the tape.
- **Auto Return**—When all the timer recordings are completed, the beginning of the recorded program(s) can be searched.
- **Auto Head Cleaner**—Automatically cleans heads as you insert or remove a cassette.
- **Time Search**—Lets you set the VCR to advance the tape by entering the desired playback time you want to skip.
- **Blank Search**—Lets you set the VCR to search for an unrecorded portion on the tape.
- **Index Search**—Lets you index the start of a recording.
- **Just-In-Time Recording**—Measures the remaining tape and automatically adjusts the tape speed so that the automatic timer recording fits on a cassette.
- **Remaining Tape Running Time Display**—You can check the remaining running time of your tape.
- **Slow Motion**—You can view the video program at a slower than normal playback speed. Slow speed can be controlled by pressing F.FWD button (faster) or REW button (slower).

SUPPLIED ACCESSORIES

Coaxial Cable	Remote Control Unit	Batteries (AA × 2)
		
PART NO. (WPZ0102JC001/ 5750398/ WPZ0102BB001/ 5750476)	PART NO. (N9287UD)	

- If you need to replace these accessories, please refer to the PART NO. under the illustrations and contact the Funai parts department for ordering.
- Depending on your antenna system, you may need different types of Combiners (Mixer) or Separators (Splitter). Contact your local electronics store for these items.

VIDEO CASSETTE TAPE INFORMATION

This VCR will operate with any cassette that has the VHS mark. For best results, we recommend the use of high-quality tapes. *Do not use poor quality or damaged tapes.*

PRECAUTIONS

- Avoid moisture. Moisture condensation may occur on the tape if it is moved from a cold place to a warm place. Before using a tape with these conditions, to avoid a damage of the tape and your VCR, wait until the tape has warmed to room temperature and the moisture has evaporated.
- Avoid extreme heat, high humidity and magnetic fields.
- Do not tamper with the cassette mechanism.
- Do not touch the tape with your fingers.

THREE DIFFERENT TAPE SPEEDS

Before recording, select the tape speed from : **SP mode** (Standard Play), **LP mode** (Long Play) or **SLP mode** (Super Long Play).

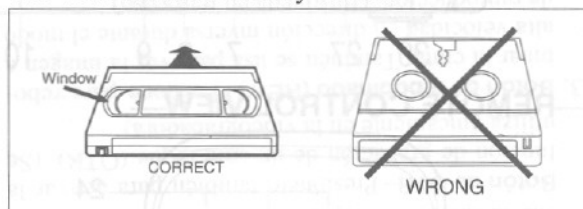
The table below shows the maximum recording/playback time using T60, T120 or T160 tapes in each mode.

Tape Speed		Recording/Playback Time		
	Type of tape	T60	T120	T160
SP mode		1 hour	2 hours	2-2/3 hours
LP mode		2 hours	4 hours	5-1/3 hours
SLP mode		3 hours	6 hours	8 hours

INSERTING A CASSETTE

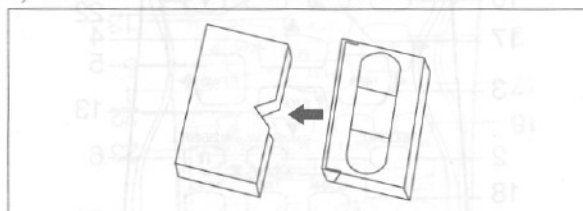
Insert the cassette in the direction as shown. Push in gently, but continuously, on the center-back of the cassette until it is drawn into the VCR.

The VCR will automatically turn on.



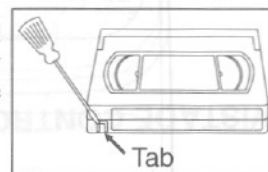
REMOVING A CASSETTE

- 1) In the Stop mode, press STOP/EJECT button on the VCR. The cassette will be ejected.
- 2) Pull the cassette out of the cassette compartment.
- 3) Store the cassette in its case as shown.

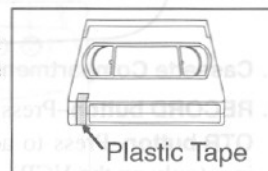


ERASE PREVENTION

You can prevent accidental erasing of recording by breaking off the tab on the back edge of the cassette.

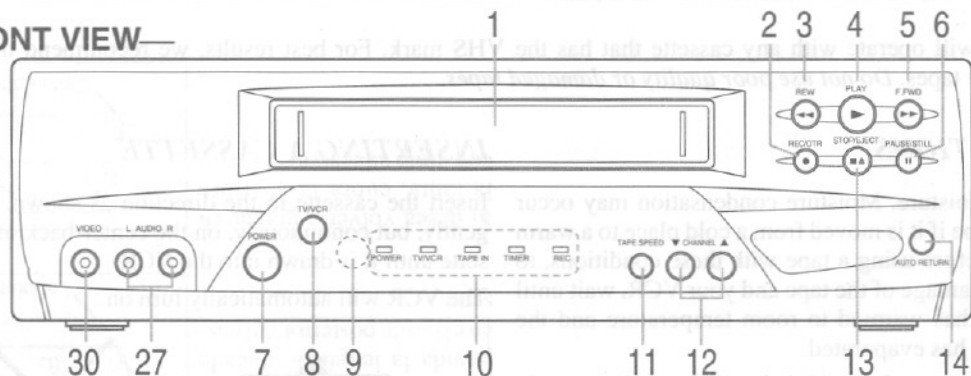


If you decide to record on the tape again, cover the hole with a plastic tape.

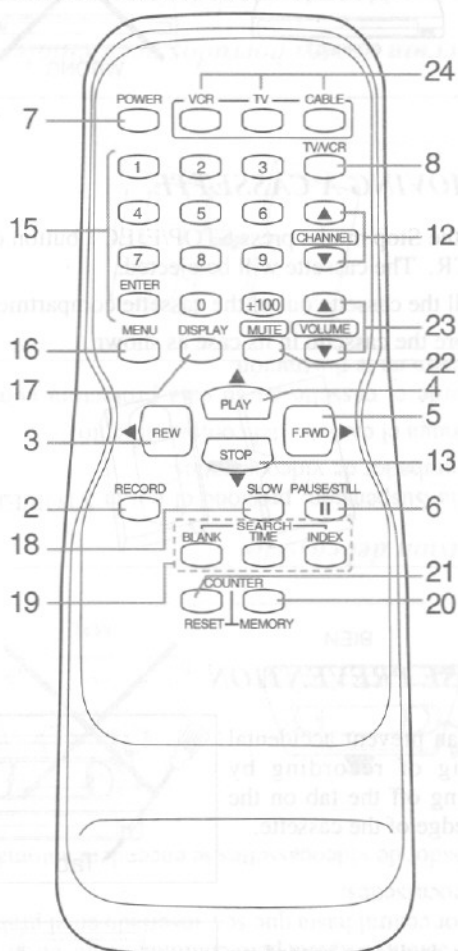


OPERATING CONTROLS AND FUNCTIONS

FRONT VIEW



REMOTE CONTROL VIEW



1. Cassette Compartment

2. RECORD button—Press to begin manual recording.

OTR button—Press to activate One Touch Recording. (only on the VCR)

3. REW button—Press to rewind the tape, or to view the picture rapidly in reverse during the playback mode. (Rewind Search)

◀ **button**—Press to cancel a setting of timer program. Press to correct digits when setting program (for example: setting clock or timer program). (only on the remote control)

4. PLAY button—Press to begin playback.

▲ **button**—Press to enter digits when setting program (for example: setting clock or timer program). Press to select setting modes from on screen menu. (only on the remote control)

5. F.FWD button—Press to rapidly advance the tape, or view the picture rapidly in forward during playback. (Forward Search)

▶ **button**—When setting program (for example: setting clock or timer program), press to determine your selection and proceed to a next step you want to input. Press to determine setting modes from on screen menu. (only on the remote control)

6. PAUSE/STILL button—Press to temporarily stop the tape during recording or to view a still picture during playback.

Frame Advance function—Press to advance the picture by one frame during the still mode.

7. POWER button—Press to turn VCR on and off. Press to activate a timer recording.

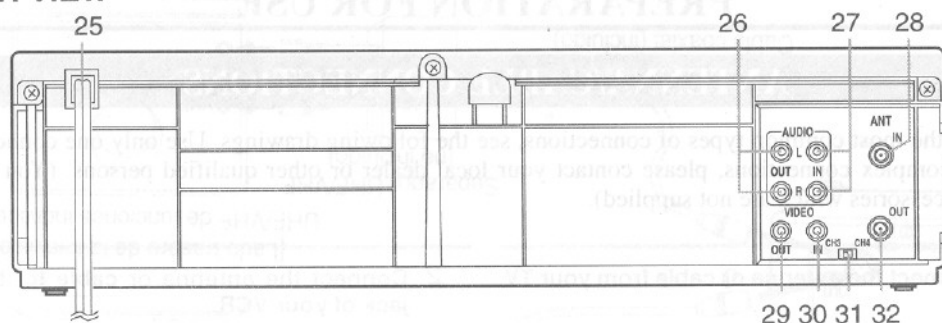
8. TV/VCR button—Press to select TV or VCR mode.

VCR position: to view playback, to monitor video recordings or watch TV using the VCR tuner.

TV position: to watch TV or to view one program while recording another.

9. Remote sensor window—Receives the infrared signals from the remote control.

—REAR VIEW—



10. Indicators

POWER indicator—Indicates that the power is turned on.

TV/VCR indicator—Indicates that the VCR is in the VCR position.

TAPE IN indicator—Indicates that there is a tape in the VCR.

TIMER indicator—Indicates that a timer recording or OTR has been set.

REC indicator—Indicates that a recording is occurring. It flashes when a recording has been paused.

11. TAPE SPEED button—Press to set desired recording speed : SP/LP/SLP.

12. CHANNEL buttons—Press to select desired channels for viewing or recording.

Tracking function—Press to minimize video 'noise' (lines or dots on screen) during playback (only on the VCR) or slow mode. Press to stabilize the picture in the Still mode when the picture begins to vibrate vertically.

13. STOP button—Press to stop the tape motion.

EJECT button—Press to remove a tape from the VCR. (only on the VCR)

▼ button—Press to enter digits when setting program (for example: setting clock or timer program). Press to select setting modes from on screen menu. (only on the remote control)

14. AUTO RETURN button—Press to rewind to the beginning of a timer recording. (only on the VCR)

15. NUMBER buttons—Press to select desired channels for viewing or recording. To select channels from 1 to 9, first press "0" button then 1 to 9.

+100 button—When selecting cable channels which are more than 100, press this button first, then press the last two digits. (To select channel 125, first press "+100" button then press "2" and "5").

ENTER button—For details, see pages 31-32.

16. MENU button—Press to display menus on the TV screen. (only on the remote control)

17. DISPLAY button—Press to display the remain, the counter, or the current channel number and current time on the TV screen. (only on the remote control)

18. SLOW button—Press to reduce the playback speed. Slow speed can be controlled by pressing F.FWD button (faster) or REW button (slower).

19. SEARCH buttons

BLANK SEARCH button—Press to use Blank Search mode.

TIME SEARCH button—Press to use Time Search mode.

INDEX SEARCH—Press to use Index Search mode.

20. COUNTER MEMORY button—Press to set counter memory on and off.

21. COUNTER RESET button—Press to reset counter to 0:00:00. Press to add or delete channel numbers during channel preset.

22. MUTE button—Press to mute the TV's sound. Press it again to resume the sound.

23. VOLUME buttons—Press to adjust the desired TV's volume level by using either ▲ or ▼ button.

24. VCR/TV/CABLE buttons—For details, see pages 31-32.

25. Power cord—Connect to a standard AC outlet (120V/60Hz).

26. AUDIO OUT jacks—Connect to the audio input jacks of your audio equipment or another VCR.

27. AUDIO IN jacks—Connect to the audio output jacks of your audio equipment or another VCR.

28. ANT. IN terminal—Connect to an antenna or CATV.

29. VIDEO OUT jack—Connect to a video input jack of your video camera or another VCR.

30. VIDEO IN jack—Connect to a video output jack of your video camera or another VCR.

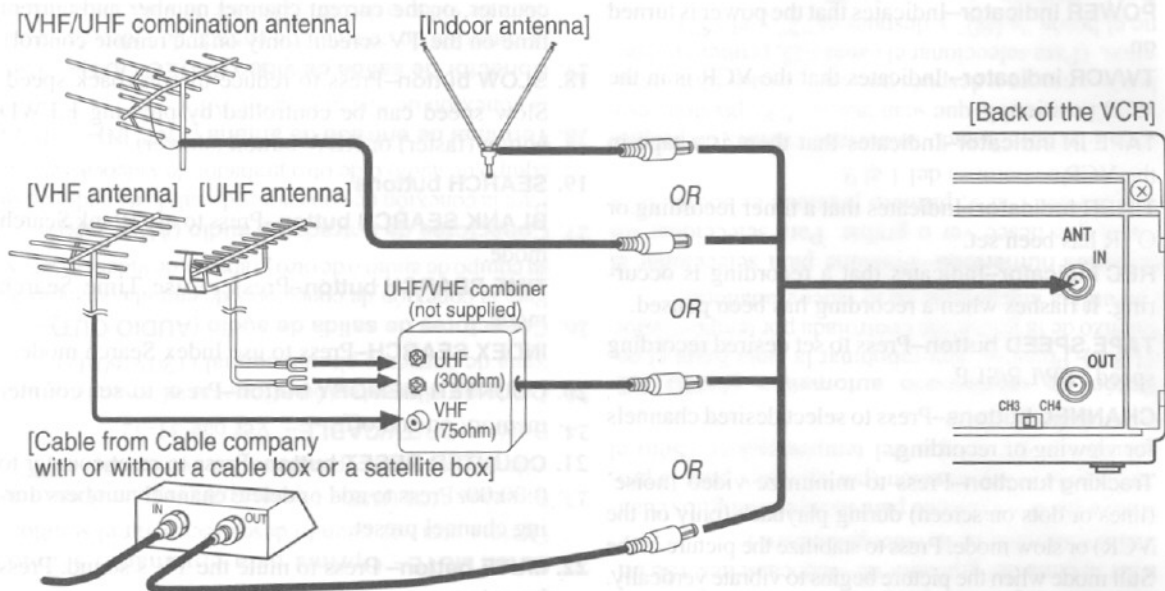
31. CH3/CH4 selector switch—Use to select a video output channel (3 or 4) for playback from the VCR.

32. ANT. OUT terminal—Connect to an antenna input terminal of your TV.

ANTENNA/CABLE CONNECTIONS

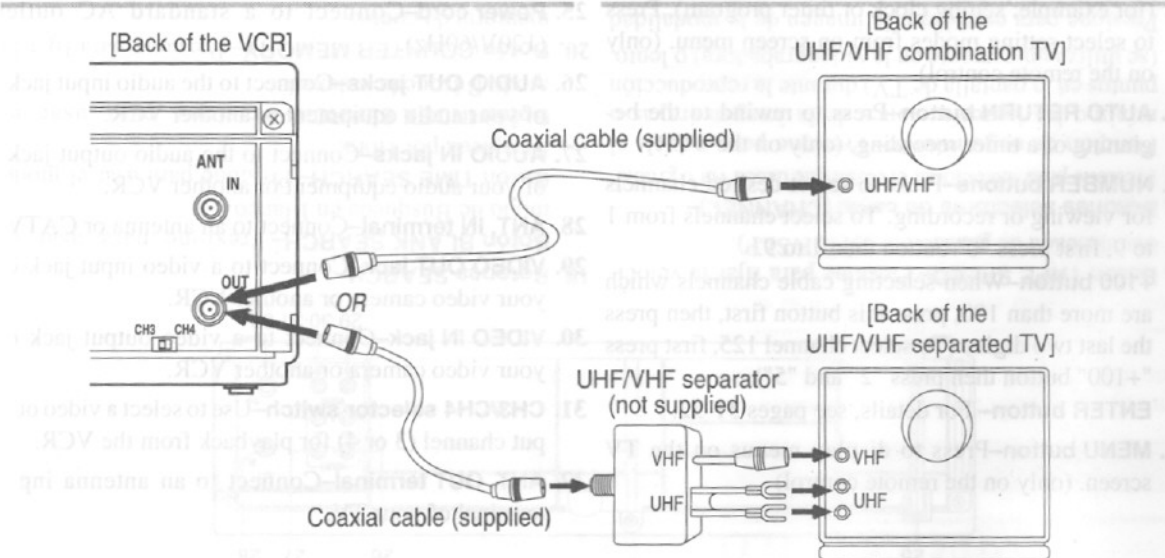
For some of the most common types of connections, see the following drawings. Use only one connection. For any further complex connections, please contact your local dealer or other qualified persons. (You may need additional accessories which are not supplied).

- 1 Disconnect the antenna or cable from your TV.
- 2 Connect the antenna or cable to the ANT.IN jack of your VCR.



NOTE: The connection of an indoor antenna with a VCR may not always give acceptable TV reception.

- 3 Connect one end of the coaxial cable (supplied) to the ANT.OUT jack of your VCR.
- 4 Connect the other end of the coaxial cable (supplied) to the UHF/VHF antenna jacks.

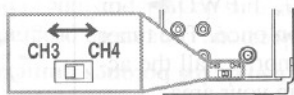


SETTING A VIDEO CHANNEL

If your TV does not have A/V terminals;

When the VCR is in the Playback mode or when the VCR is in the VCR position, your TV will receive the signals from the VCR on either channel 3 or 4.

To use the VCR with your TV, set the selector switch to CH3 or CH4, whichever is not used or least used for normal broadcasts in your area. Then set your TV to that same channel.

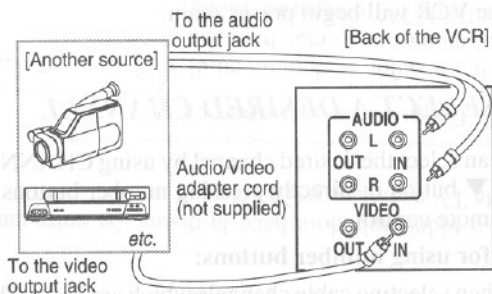


CONNECTING TO INPUT JACKS

When you copy a video tape, or watch a program recorded on an another source, use audio/video input jacks.

NOTES:

- You can use the audio and video input jacks on the front panel of the VCR instead of using jacks on the back.
- When you connect the monaural VCR (another source) to this VCR, connect the Audio output jack of the monaural VCR (another source) to the AUDIO IN L jack of this VCR. The audio signal will be recorded in both L and R channel equally.



INPUT SELECT

To use the external input jacks, select the "L1" or "L2" position.

- If you use the audio and video input jacks **on the back of the unit**, press 0, 0, 1 on the remote control to select the "L1" position.
- If you use the audio and video input jacks **on the front of the unit**, press 0, 0, 2 on the remote control to select the "L2" position.

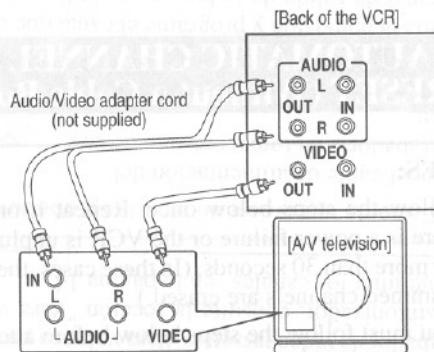
You can select "L1", "L2" as you would a channel by using the CHANNEL "▲" or "▼" button.

Note: "L1" and "L2" are found before the lowest memorized channel. (Example: CH2)

A/V TERMINALS

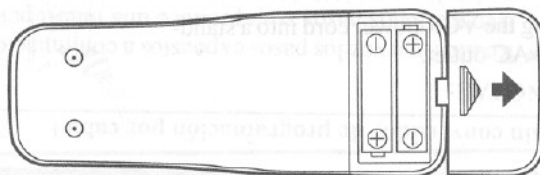
If your TV has A/V input jacks, you may connect your VCR's AUDIO/VIDEO OUTPUT jacks to the audio/video input jacks on back of your TV.

Direct audio/video connections usually result in a better picture and sound quality for tape playback. Please see your TV's owner's manual for A/V input connections.



INSTALLING THE BATTERIES

- 1) Open the battery compartment cover by pressing the cover on the remote unit in the direction of the arrow.
- 2) Insert 2 "AA" penlight batteries into the battery compartment in the direction indicated by the polarity (+/-) markings.
- 3) Replace the cover.



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.

PRESET FOR USE

Channel memory programming is NOT needed when connected to a cable box or satellite box. Just select channel 3 or 4 on the VCR, and the channel to be viewed or recorded is to be selected on the cable box or satellite box. You can program the tuner to scan only the channels you receive in your area. See page 35 for channel designations.

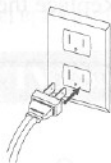
NOTE: You must use the remote control for this procedure.

AUTOMATIC CHANNEL PRESET (Without a Cable Box)

NOTES:

- Follow the steps below once. Repeat it only if there is a power failure or the VCR is unplugged for more than 30 seconds. (In these cases, the programmed channels are erased.)
- You must follow the steps below before attempting to play or record a video tape. If you want to play or record a video tape **BEFORE** programming the tuner, you must first press the **POWER** button to turn off the VCR. Then, press the **POWER** button again to turn it back on. To program the tuner again, see "CHANNEL PRESET AGAIN" on page 14.

- 1 Plug in the VCR power cord**
Plug the VCR power cord into a standard AC outlet.



- 2 Select channel 3 or 4 on the TV**
Turn on the TV and set the TV channel to the same video output channel as located on the back of the VCR. (CH3 or 4)

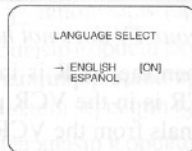
- 3 Turn on the VCR**
Press **POWER** button to turn on the VCR. The **POWER** indicator on the VCR comes on.

- 4 Select the VCR mode**
Press **TV/VCR** button so that the **TV/VCR** indicator on the VCR comes on.

5 Select "ENGLISH" or "ESPAÑOL"

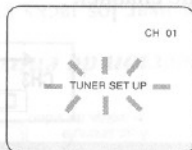
Select "ENGLISH" or "ESPAÑOL=Spanish" using **PLAY/▲** or **STOP/▼** button.

Then, press **MENU** or **F.FWD/▶** button.



6 Begin channel preset

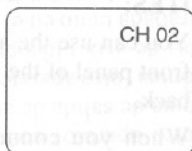
Press **MENU**, **F.FWD/▶** or **REW/◀** button once. The tuner scans and memorizes all the active channels in your area.



- The VCR distinguishes between standard TV channels and cable channels.

7 After scanning

The tuner stops on the lowest memorized channel. The TV screen returns to TV mode.



- If "TUNER SET UP" appears on the TV screen again, check the cable connections. Then, press **MENU**, **F.FWD/▶** or **REW/◀** button once again. The VCR will begin preset again.

TO SELECT A DESIRED CHANNEL

You can select the desired channel by using **CHANNEL ▲** or **▼** button or directly pressing number buttons on the remote control.

Note for using number buttons:

- When selecting cable channels which are higher than 100, press **+100** button first, then press the last two digits. (To select channel 125, first press **" +100 "** button then press **"2"** and **"5"**).
- You must precede single-digit channel numbers with a zero (For example: 02, 03, 04 and so on).

SETTING THE CLOCK

Set the clock accurately for proper automatic timer recording. We suggest that you use a TV or radio station as your time source.

In the example below, the clock is to be set to:

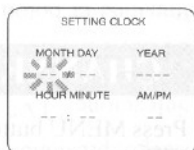
DATE 1st March, 1997
SETTING TIME 5:40PM

Make sure ...

- You must use the remote control for this procedure.
- VCR power must be turned on.
- Turn on the TV and set the TV channel to the same video output channel as located on the back of the VCR. (CH 3 or 4)
- Press TV/VCR button so that the TV/VCR indicator on the VCR comes on.

1 Select "SETTING CLOCK"

Press MENU button. The SETTING CLOCK menu appears.



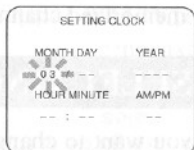
Make sure ...

- When you press F.FWD/▶ button during steps [2] to [6], you may forward to next step.
- Press REW/◀ button to go back one step from current step during steps [3] to [7].

2 Select the month

Press PLAY/▲ or STOP/▼ button repeatedly until your desired month appears. (Example: March → 03)

Then, press F.FWD/▶ button.



3 Select the day

Press PLAY/▲ or STOP/▼ button repeatedly until your desired day appears. (Example: 1st → 01)

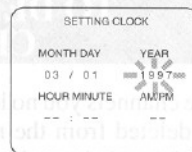
Then, press F.FWD/▶ button.



4 Select the year

Press PLAY/▲ or STOP/▼ button repeatedly until your desired year appears. (Example: 1997)

Then, press F.FWD/▶ button.



5 Select the hour

Press PLAY/▲ or STOP/▼ button repeatedly until your desired hour appears. (Example: 05)

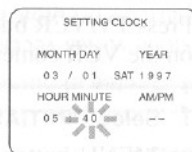
Then, press F.FWD/▶ button.



6 Select the minute

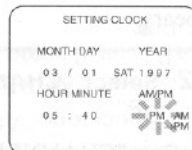
Press PLAY/▲ or STOP/▼ button repeatedly until the desired minute appears. (Example: 40)

Then, press F.FWD/▶ button.



7 Select "AM" or "PM"

Press PLAY/▲ or STOP/▼ button repeatedly to point to "AM" or "PM". (Example: PM)



8 Start the clock

Press MENU or F.FWD/▶ button.

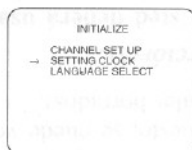
Although seconds are not displayed, they begin counting from 00 when you press MENU or F.FWD/▶ button. Use this feature to synchronize the clock with the correct time.

NOTES:

- When unplugging the AC-cord or if there is a power failure for more than 30 seconds, you may have to reset the clock.
- If the display shows an abnormal reading or no reading, unplug the power cord for more than 30 seconds. Then plug it back in. And reset clock.

TO CHANGE CLOCK SETTING

- 1) Press MENU button repeatedly so that the INITIALIZE menu appears.
- 2) Press PLAY/▲ or STOP/▼ button repeatedly to point to "SETTING CLOCK". Then, press F.FWD/▶ button.
- 3) Follow steps [2]~[8].



TO DELETE PRESET CHANNELS

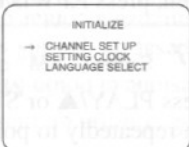
The channels you no longer receive or seldom watch can be deleted from the memory. (Of course, you can add the deleted channel into the memory again.)

Make sure ...

- You must use the remote control for this procedure.
- VCR power must be turned on.
- Turn on the TV and set the TV channel to the same video output channel as located on the back of the VCR. (CH 3 or 4)
- Press TV/VCR button so that the TV/VCR indicator on the VCR comes on.

1 Select "INITIALIZE"

Press MENU button repeatedly so that the INITIALIZE menu appears.



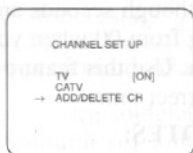
2 Select "CHANNEL SET UP"

Confirm "CHANNEL SET UP" is pointed. Then, press F.FWD/▶ button.

3 Select "ADD/DELETE CH"

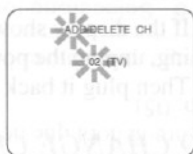
Press PLAY/▲ or STOP/▼ button repeatedly to point to "ADD/DELETE CH".

Then, press F.FWD/▶ button.



4 Enter the desired channel number

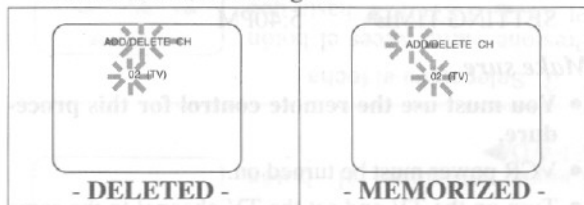
Press the number buttons or PLAY/▲ or STOP/▼ button repeatedly until your desired channel number appears. (Example: CH02)



5 Delete it from memory

Press COUNTER RESET button so that "DELETE" flashes on the TV screen.

- To delete another channel, repeat steps [4] and [5].
- If you press COUNTER RESET button again, the channel is memorized again.



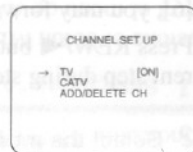
6 Exit the preset mode

Press MENU button to return to TV mode.

NOTE: To confirm that channel(s) has been deleted or added, press CHANNEL ▲ or ▼ button.

CHANNEL PRESET AGAIN

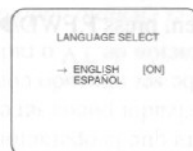
- 1) Press MENU button repeatedly so that the INITIALIZE menu appears.
- 2) Confirm "CHANNEL SET UP" is pointed. Then, press F.FWD/▶ button.
- 3) Press PLAY/▲ or STOP/▼ button repeatedly to point to "TV" or "CATV".
- 4) Press F.FWD/▶ button once or twice. After scanning, the tuner stops on the lowest memorized channel.



SELECTING THE LANGUAGE

If you want to change the language on the TV screen, follow the steps below:

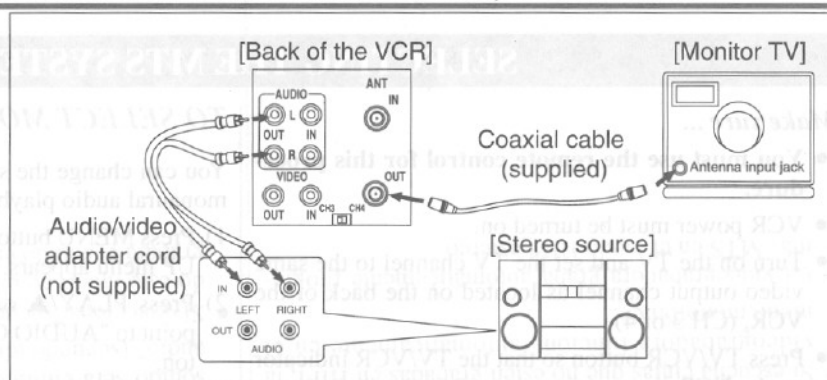
- 1) Press MENU button repeatedly so that the INITIALIZE menu appears.
- 2) Press PLAY/▲ or STOP/▼ button repeatedly to point to "LANGUAGE SELECT". Then, press F.FWD/▶ button.
- 3) Select "ENGLISH" or "ESPAÑOL= Spanish" using PLAY/▲ or STOP/▼ button.
- 4) Press MENU button to return to TV mode.



MTS (Multi-Channel Television Sound) SYSTEM

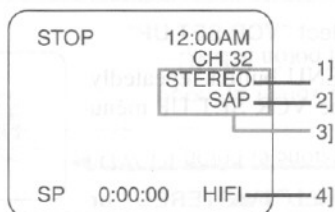
You can record or listen to a program in MTS broadcast, by using a stereo amplifier and speakers.

Connect your VCR to your stereo source using the following diagram.



CHECKING THE SELECTED MTS MODE

When you receive a signal from a tape or VCR tuner channel you are watching, the status shown below will appear when you press the DISPLAY button on the remote control.



- 1] When a program broadcast in stereo can be received, STEREO appears on the TV screen.
- 2] When a program broadcast in second audio can be received, SAP appears on the TV screen.
- 3] When a program broadcast both in stereo and second audio can be received, STEREO and SAP appear on the TV screen.

NOTE: Although a program may be broadcast in both stereo and second audio, you cannot record in both stereo and second audio at the same time.

- 4] While VCR is set in HIFI stereo mode, HIFI appears on the TV screen. While VCR is set in monaural(MONO) mode, HIFI disappears from the TV screen.

NOTE: If you play non-HIFI tapes while the VCR is set in HIFI, HIFI will disappear from the TV screen and the VCR will play automatically in monaural.

SAP	A Second Audio Program which means your program is received in a second language.
HIFI	High Fidelity which produces a clear sound from two sources.

MTS RECORDING/MONITOR MODE

Type of broadcast	Display on the TV screen	STEREO/SAP SELECTION	Hi-Fi audio track (2-channel)		Normal audio track
			L-channel	R-channel	
Regular (monaural audio)	-None-	-Invalid-	Mono	Mono	Mono
Stereo broadcast	STEREO	-Invalid-	L	R	L + R
Bilingual broadcast	SAP	TV STEREO*	Main audio program	Main audio program	Main audio program
		SAP*	Sub audio program	Sub audio program	Sub audio program
Stereo & Bilingual broadcast	STEREO SAP	TV STEREO*	L	R	L + R
		SAP*	Sub audio program	Sub audio program	Sub audio program

* You must select the recording mode in TV STEREO or SAP when you record a broadcast. Refer to "TO SELECT STEREO OR SAP MODE" on the next page.

SELECTING THE MTS SYSTEM

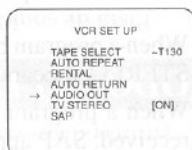
Make sure ...

- You must use the remote control for this procedure.
- VCR power must be turned on.
- Turn on the TV and set the TV channel to the same video output channel as located on the back of the VCR. (CH 3 or 4)
- Press TV/VCR button so that the TV/VCR indicator on the VCR comes on.

TO SELECT HIFI MODE

1 Select "VCR SET UP"

Press MENU button repeatedly so that the VCR SET UP menu appears.



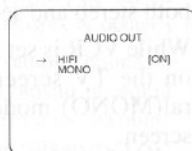
2 Select "AUDIO OUT"

Press PLAY/▲ or STOP/▼ button repeatedly to point to "AUDIO OUT".

Then, press F.FWD/▶ button.

3 Select "HIFI"

Press PLAY/▲ or STOP/▼ button repeatedly to point to "HIFI".



4 To return to TV mode

Press MENU button.

Notes:

- Normally, "HIFI" should be selected for playback with HIFI sound.
- When you play non-HIFI tapes, VCR play automatically in monaural.
- The VCR records automatically MTS broadcasts in HIFI stereo sound.

TO SELECT MONO MODE

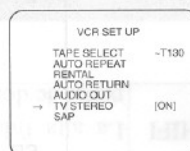
You can change the selection to "MONO" if you want monaural audio playback.

- 1) Press MENU button repeatedly so that the VCR SET UP menu appears.
- 2) Press PLAY/▲ or STOP/▼ button repeatedly to point to "AUDIO OUT". Then, press F.FWD/▶ button.
- 3) Press PLAY/▲ or STOP/▼ button repeatedly to point to "MONO".
- 4) Press MENU button to return to original mode.

TO SELECT STEREO OR SAP MODE

1 Select "VCR SET UP"

Press MENU button repeatedly so that the VCR SET UP menu appears.



2 Select "TV STEREO" or "SAP"

Press PLAY/▲ or STOP/▼ button repeatedly to point to "TV STEREO" or "SAP".

Then, press F.FWD/▶ button.

3 To return to TV mode

Press MENU button.

Notes:

- You must select the recording mode in TV STEREO or SAP when you record broadcast.
- Refer to "MTS RECORDING/MONITOR MODE" on previous page.
- When you play the tape on the VCR later, it will be in stereo or second audio.
- If you select second audio when second audio is not available, the VCR will record normal audio.

NORMAL PLAYBACK

Make sure ...

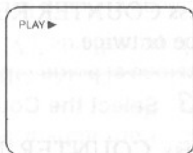
- Turn on the TV and set the TV channel to the same video output channel as located on the back of the VCR. (CH 3 or 4)
- Press TV/VCR button so that the TV/VCR indicator on the VCR comes on.

1 Insert a prerecorded tape

Counter mode appears at counter 0:00:00 on the TV screen. If the erase-protection tab has been removed, the VCR will start playback automatically.

2 To begin playback

Press PLAY button.



NOTE: If any menu is activated on the TV screen, the PLAY button on the remote control does not function. Press MENU button to clear the menu. Then, press PLAY button.

If a tape is already in the VCR with power off

2A) Using button on the VCR

Just press PLAY button on the VCR. Power will automatically turn on and playback will start. (Direct Button Operation)

2B) Using button on the remote control

Press POWER button to turn on, and then press PLAY button on the remote control.

3 To stop playback

Press STOP button.

PICTURE SEARCH

This feature is useful in finding or skipping over a particular scene on a tape. In this mode, the sound will be muted.

- 1) You may view a video tape at a high speed in either a forward or reverse direction by pressing F.FWD or REW button. (in the SP / LP / SLP modes)
- 2) Depress it again, the VCR will now search in super high speed. (in the LP / SLP modes only)
- 3) Press PLAY button to return to normal speed.

STILL PICTURE

You can view a still picture on the screen during playback (the Still mode). Press PAUSE/STILL button during playback. Press PLAY button to return to playback.

NOTES:

- You can advance the picture by one frame by pressing the PAUSE/STILL button repeatedly during the still mode.
- If it is left in the Still mode for more than five minutes, the VCR will automatically switch to the Stop mode.

VERTICAL HOLD CONTROL

When the picture begins to vibrate vertically, stabilize the picture by pressing CHANNEL ▲ or ▼ button in the Still mode.

NOTES:

- When the picture is distorted or rolling vertically, adjust vertical hold control on your TV.
- Some newer TV's do not have a user adjustable vertical hold control.

TRACKING ADJUSTMENT

- Tracking adjustment will be set automatically (Digital TRacking function) when you start playback.
- When playing pre-recorded tapes or tapes recorded on units other than your own, noise lines (black and white streaks) may appear on the playback picture. If this occurs, you can adjust the tracking control manually by pressing CHANNEL ▲ or ▼ button on the VCR until the streaks disappear.

To return to the DTR function, stop the tape once and start playback again.

- To set center position, press both CHANNEL ▲ and ▼ button at the same time.

NOTE: This function is controlled only by the buttons on the VCR. The buttons on the remote control will not adjust tracking.

- You can reduce the noise lines by pressing CHANNEL ▲ or ▼ button in slow mode, too. Slow tracking adjustment will not be set automatically.

Note: In Still mode, press SLOW button and press CHANNEL ▲ or ▼ button until the streaks disappear. To return to Still mode, press PAUSE/STILL button again.

SLOW MOTION

Press SLOW button to reduce the playback speed. The VCR mutes the sound during slow motion. You can control the speed by pressing F.FWD button (faster) or REW button (slower).

Press PLAY button to return to normal playback.

NOTE: If it is left in the Slow mode for more than five minutes, the VCR will automatically switch to the Stop mode.

COUNTER MEMORY

This feature can be used to memorize a beginning point that you want to review. And you can search it easily by rewinding or fast forwarding.

Make sure ...

- Insert a prerecorded tape.

1 Stop a tape at your desired point

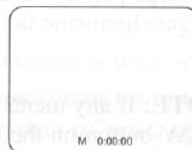
Rewind or fast forward the tape to the beginning point at which you want to review.

2 Reset the counter to 0:00:00

Press COUNTER RESET button on the remote control once or twice.

3 Select the Counter Memory mode

Press COUNTER MEMORY button on the remote control so that "M" appears on the TV screen.



4 Begin recording or playback

Press RECORD or PLAY button.

Press STOP button when recording or playback is completed.

5 To activate the Counter Memory

Press DISPLAY button so that the counter appears on the TV screen.

Press REW (or F.FWD) button. The VCR will automatically stop when the counter returns to 0:00:00 (approx.).

NOTE: If the counter is not displayed, the Counter Memory will not be activated.

TO EXIT THE COUNTER MEMORY

When the counter appears on the TV screen, press COUNTER MEMORY button on the remote control once and then press DISPLAY button on the remote control twice so that the "M" and the counter disappears from the TV screen.

Make sure ...

- You must use the remote control for the following procedure.
- VCR power must be turned on.

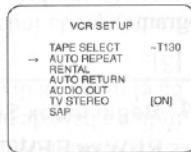
AUTO REPEAT PLAYBACK

The VCR has the auto repeat function that allows you to repeat a tape indefinitely without touching the PLAY button.

Make sure ... Insert a prerecorded tape.

1 Select "VCR SET UP"

Press MENU button repeatedly so that the VCR SET UP menu appears.



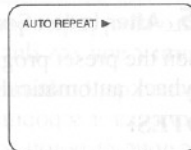
2 Select "AUTO REPEAT"

Press PLAY/▲ or STOP/▼ button repeatedly to point to "AUTO REPEAT".

3 Begin Auto repeat playback

Press F.FWD/▶ button so that [ON] will appear next to "AUTO REPEAT" on the TV screen.

Repeat playback will start automatically.



NOTES:

- Once you select the Auto Repeat mode, it stays in effect even after you turn off the VCR.
- When the Counter Memory is activated, the tape will rewind to 0:00:00 and the VCR will be in the Stop mode.
- If the Rental mode is set [ON], the "RENTAL PLAY▶" display has priority.
- To stop playback, press STOP button.

TO EXIT THE AUTO REPEAT MODE

Repeat steps [1] to [2]. Then, press F.FWD/▶ button. [ON] will then disappear from the menu. Press MENU button to return to TV mode.

- Turn on the TV and set the TV channel to the same video output channel as located on the back of the VCR. (CH 3 or 4)
- Press TV/VCR button so that the TV/VCR indicator on the VCR comes on.

RENTAL PLAYBACK

This function enables you to improve the picture quality when playing back worn cassettes such as those rented from a video shop.

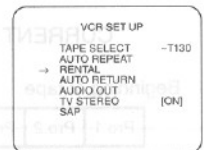
1 Insert rental tape into VCR

Begin playback.

- Selecting ON or OFF must be done **during playback**.

2 Select "VCR SET UP"

Press MENU button repeatedly so that the VCR SET UP menu appears.

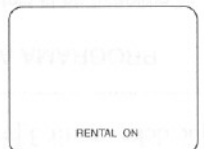


3 Select "RENTAL"

Press PLAY/▲ or STOP/▼ button repeatedly to point to "RENTAL".

4 Select "RENTAL" to [ON]

Press F.FWD/▶ button so that "RENTAL ON" appears.



NOTES:

- Once you select the Rental mode, it stays in effect even after you turn off the VCR.
- To stop playback, press STOP button.

TO EXIT THE RENTAL PLAY MODE

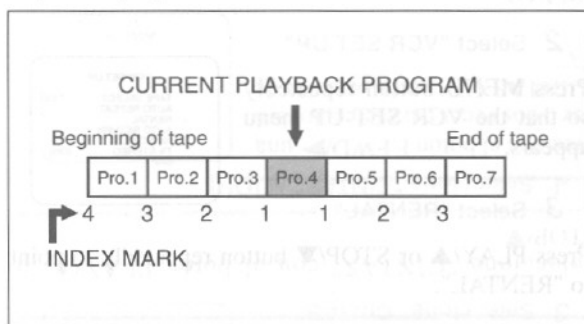
Repeat steps [1] to [3]. Then, press F.FWD/▶ button so that "RENTAL OFF" appears on the TV screen.

INDEX SEARCH

This feature provides a method of indexing the starting point so that it can be easily returned to in either fast forward or rewind mode.

- The index mark will be made automatically when the REC button is pressed. It will also be marked at the starting point of Timer recording and OTR.
- The index mark is not recorded if the PAUSE button is pressed and released during recording.
- The time gap between making the index marks on the tape should be greater than 1 minute for SP recording, 2 minutes for LP recording and 3 minutes for SLP recording.

Example: You are watching program number 4 and want to fast forward to program number 7. You must skip three programs.



1 Select "SEARCH SELECT"

Press MENU button repeatedly so that the SEARCH SELECT menu appears.



2 Select "INDEX SEARCH"

Confirm "INDEX SEARCH" is pointed. Then, press F.FWD/▶ button.

3 Enter your desired number

Press PLAY/▲ or STOP/▼ button repeatedly until the number of programs that you want to skip appears. (Example: "03" for 3 programs)



4 Begin Index Search

Press REW or F.FWD button. The VCR begins rewinding or fast forwarding to the beginning of desired program.

Note: Every time an index signal is skipped, the number in the program indicator decreases by one.

5 After Index Search

When the preset program is reached, the VCR will start playback automatically.

NOTES:

- You may also activate the index search mode by pressing the INDEX SEARCH button on the remote control. Then continue with step [3].
- Index Search can be set up to 20.
- This function will not operate in the recording mode.
- Procedures must be followed within 30 seconds, from steps [2] to [3]. Otherwise the Index Search mode will be cancelled.
- To exit the Index Search mode, press the MENU button after step [3]. Or press the STOP button after step [4].
- A video cassette must be inserted in the VCR for this function to work.

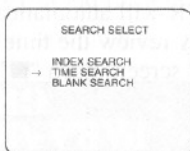
TIME SEARCH

The Time Search function makes it possible to quickly advance the tape to your desired position from any position by entering the exact amount of playback time of the part that you want to skip.

Example: To watch a program after 2 hours and 50 minutes from present position, in either direction.

1 Select "SEARCH SELECT"

Press MENU button repeatedly so that the SEARCH SELECT menu appears.



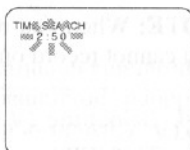
2 Select "TIME SEARCH"

Press PLAY/▲ or STOP/▼ button repeatedly to point to "TIME SEARCH".

Then, press FWD/▶ button.

3 Enter your desired time

Press PLAY/▲ or STOP/▼ button repeatedly until your desired time appears. (Example: "2:50" for 2 hours 50 minutes)



4 Begin Time Search

Press REW or FWD button. The VCR begins rewinding or fast forwarding to the specified point.

The time counts down as the searching progresses.

5 After Time Search

When 0:00 is reached, the VCR will start playback automatically.

NOTES:

- You may also activate the time search mode by pressing the TIME SEARCH button on the remote control. Then continue with step [3].
- Time Search can be set up to 9 hours 59 minutes (9:59).
- This function will not operate in the recording mode.
- Procedures must be followed within 30 seconds, from steps [2] to [3]. Otherwise the Time Search mode will be cancelled.
- To exit the Time Search mode, press the MENU button after step [3]. Or press the STOP button after step [4].
- A video cassette must be inserted in the VCR for this function to work.

BLANK SEARCH

This function enables you to search for the unrecorded portion of the tape in the forward direction.

- Tape must be fully rewind.

1 Select "SEARCH SELECT"

Press MENU button repeatedly so that the SEARCH SELECT menu appears.



2 Select "BLANK SEARCH"

Press PLAY/▲ or STOP/▼ button repeatedly to point to "BLANK SEARCH".

Then, press FWD/▶ button.

- The VCR begins fast forwarding to the beginning of the blank part of the tape.

3 After Blank Search

The VCR will automatically stop.

NOTES:

- You may also activate the blank search by pressing the BLANK SEARCH button on the remote control.
- The blank search will only work in the forward direction not in the reverse direction.
- A video cassette must be inserted in the VCR for this function to work.

RECORDING

Make sure ...

- VCR power must be turned on.
- Turn on the TV and set the TV channel to the same video output channel as located on the back of the VCR. (CH 3 or 4)
- Press TV/VCR button so that the TV/VCR indicator on the VCR comes on.
- Insert a cassette tape with its erase prevention tab in place. (If necessary, rewind or fast forward the tape to the point at which you want to begin recording.)
- You must select the recording mode in TV STEREO or SAP when you record a broadcast. Refer to "TO SELECT STEREO OR SAP MODE" on page 16.

VIEWING AND RECORDING THE SAME PROGRAM

1 Select the channel to be recorded

Press number buttons on the remote control or the CHANNEL ▼ or ▲ button.

CH 32

NOTE: When you record with a cable converter box or a satellite box, the VCR channel must be selected to 3 or 4, then the actual channel that you wish to record must be selected on the cable converter box or the satellite box. You will only be able to record and view the same channel.

2 Select the tape speed

Press TAPE SPEED button on the VCR to select the desired tape speed (SP/LP/SLP).

SP

3 Begin recording

Press RECORD button. The REC indicator on the VCR comes on.

REC

SP

NOTE: If any menu is activated on the TV screen, the RECORD button on the remote control does not function. Press MENU button to clear the menu. Then, press RECORD button.

4 Stop recording

Press STOP button when recording is completed.

SKIPPING SOME MATERIALS DURING RECORDING

Press PAUSE/STILL button to temporarily stop recording.

PAUSE
■■■■■

Press PAUSE/STILL or RECORD button to resume recording.

NOTE: To prevent tape damage, after five minutes, the VCR will automatically switch to the Stop mode. You may review the time remaining with "■" marks on the TV screen. Each "■" mark shows one minute.

RECORDING ONE PROGRAM WHILE VIEWING ANOTHER

You can record one program while viewing another. To start recording, follow steps [1] to [3] under "VIEWING AND RECORDING THE SAME PROGRAM".

NOTE: When you record with a cable converter box, you cannot record one program while viewing another.

4 Select the TV mode

Press TV/VCR button to select TV so that the TV/VCR indicator on the VCR *disappears*.

5 Select the channel on the TV

Set the TV to the channel you want to watch.

TO MONITOR THE PROGRESS OF YOUR RECORDING

1 Select the VCR mode

Press TV/VCR button so that the TV/VCR indicator on the VCR comes on.

2 Select channel 3 or 4 on the TV

Turn on the TV and set the TV channel to the same video output channel as located on the back of the VCR. (CH3 or 4)

OTR (One Touch Recording)

This function enables you to set a recording length simply by pressing REC/OTR button on the VCR.

Make sure ...

- This function cannot be done by the remote control.
- VCR power must be turned on.
- Turn on the TV and set the TV channel to the same video output channel as located on the back of the VCR. (CH3 or 4)
- Press TV/VCR button so that the TV/VCR indicator on the VCR comes on.
- Insert a cassette tape with its erase prevention tab in place. (If necessary, rewind or fast forward the tape to the point at which you want to begin recording.)

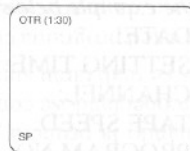
PUSH(ES)	DISPLAY	RECORDED LENGTH
1 push	(normal recording)	
2 pushes	0:30	30 minutes
3 pushes	1:00	60 minutes
↓	↓	↓
17 pushes	8:00	480 minutes
18 pushes	(normal recording)	

1 Select the channel to be recorded

Press number buttons on the remote control or the CHANNEL ▼ or ▲ button.

2 Begin OTR

Press REC/OTR button on the VCR as many times as needed. The recording length will be determined by the number of times you press REC/OTR button.



Each additional push will increase the recording time by 30 minutes. It is set up to 8 hours.

NOTES:

- Recording starts immediately when the REC/OTR button is pressed, whether you are watching the same or a different channel.
- When REC/OTR button is pressed 18 times, the VCR returns to the normal recording mode.
- To stop the OTR operation, press STOP button on the VCR or on the remote control.
- To show the remaining time, press DISPLAY button on the remote control so that "OTR" appears on the TV screen. (It will show up momentarily then disappear.)
- Recording stops when 0:00 is reached.
- Please note that in the SLP mode maximum recording time, assuming the tape is started at the beginning, is 8 hours using T-160 (or 6 hours using T-120).
- The TV that is connected to your VCR may be turned on or off during OTR.
- If the tape runs out before the end time, the VCR will switch to the Stop mode immediately, eject the tape and the VCR power will be turned off.

AUTOMATIC TIMER RECORDING

You may set the VCR to start and end a recording while you are away. You can set seven programs to record on specific days, daily or weekly within a 1 year period.

In the example below, the timer is being set to record:

DATE: 6th May, 1997
 SETTING TIME: from 7:30PM to 8:30PM
 CHANNEL: CH16
 TAPE SPEED: SP
 PROGRAM NO: No. 1

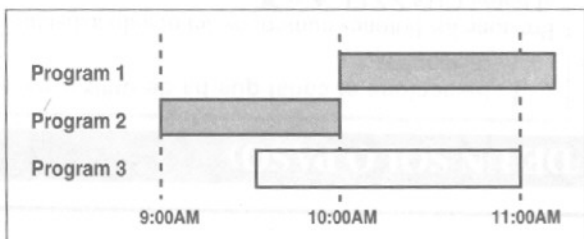
Make sure ...

- You must use the remote control for this procedure.
- VCR power must be turned on to program it.
- Turn on the TV and set the TV channel to the same video output channel as located on the back of the VCR. (CH3 or 4)
- Press TV/VCR button so that the TV/VCR indicator on the VCR comes on.
- Clock must be set to the correct time and date before setting the timer.
- Insert a cassette tape with its erase prevention tab in place. (If necessary, rewind or fast forward the tape to the point at which you want to begin recording.)

Avoid overlap of programs ...

There is a case that a program will not be performed. When programs overlap:

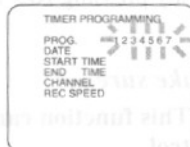
- The program that the start time is set earliest has priority.
- When the earliest program has finished and the programs which should start still overlap, the recording will start in order of the program number.
- If you programmed as the illustration below, the timer recording would be carried out as follows (shaded part is the carried period):
 9:00AM - 10:00AM for PROGRAM 2
 10:00AM - for PROGRAM 1



1 Select "TIMER PROGRAMMING"

Press MENU button so that the TIMER PROGRAMMING menu appears.

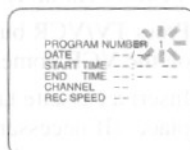
NOTE: If you have not yet set the clock, "SETTING CLOCK" appears. If so, follow the steps [2] to [8] on page 13. Then, set the timer recording.



2 Select your desired program number (1-7)

Program number which is not set up flashes.

Press PLAY/▲ or STOP/▼ button repeatedly until your desired program number appears. (Example: 1)

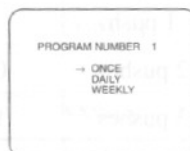


Then, press F.FWD/▶ button.

3 Select once, daily or weekly recording

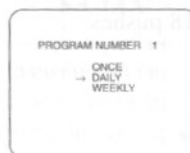
For once recording :

Press PLAY/▲ or STOP/▼ button repeatedly to point to "ONCE". Then, press F.FWD/▶ button.



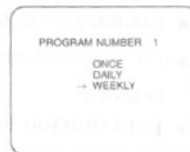
For daily recording : To record a TV program at the same time on the same channel every day. (Example: Monday through Sunday)

Press PLAY/▲ or STOP/▼ button repeatedly to point to "DAILY". Then, press F.FWD/▶ button.



For weekly recording : To record a TV program at the same time on the same channel every week. (Example: every Monday on channel 7 at 5:00PM)

Press PLAY/▲ or STOP/▼ button repeatedly to point to "WEEKLY". Then, press F.FWD/▶ button.



Make sure ...

- When you press F.FWD/▶ button during steps [4] to [10], you may forward to next step.
- Press REW/◀ button to go back one step from current step during steps [2] to [10].

4 Set the date when you want to start

First, press PLAY/▲ or STOP/▼ button repeatedly until your desired month appears. (Example: "05" for May) Then, press F.FWD/▶ button.

Next, press PLAY/▲ or STOP/▼ button repeatedly until your desired day appears, and then press F.FWD/▶ button. (Example: "06" for 6th)

ONE TIME PROGRAM
PROGRAM NUMBER 1
DATE 05/06 TUE
START TIME 07:30
END TIME 08:30
CHANNEL 16
REC SPEED SP

5 Set the start hour

Press PLAY/▲ or STOP/▼ button repeatedly until your desired hour appears. (Example: 07)

Then, press F.FWD/▶ button.

ONE TIME PROGRAM
PROGRAM NUMBER 1
DATE 05/06 TUE
START TIME 07:00
END TIME 08:30
CHANNEL 16
REC SPEED SP

6 Set the start minute

Press PLAY/▲ or STOP/▼ button repeatedly until your desired minute appears. (Example: 30) Then, press F.FWD/▶ button.

Next, press PLAY/▲ or STOP/▼ button to point to "AM" or "PM". (Example: PM) Then, press F.FWD/▶ button.

ONE TIME PROGRAM
PROGRAM NUMBER 1
DATE 05/06 TUE
START TIME 07:30
END TIME 08:30
CHANNEL 16
REC SPEED SP
AM
PM

7 Set the end hour

Press PLAY/▲ or STOP/▼ button repeatedly until your desired hour appears. (Example: 08)

Then, press F.FWD/▶ button.

ONE TIME PROGRAM
PROGRAM NUMBER 1
DATE 05/06 TUE
START TIME 07:30
END TIME 08:00
CHANNEL 16
REC SPEED SP

8 Set the end minute

Press PLAY/▲ or STOP/▼ button repeatedly until your desired minute appears. (Example: 30) Then, press F.FWD/▶ button.

Next, press PLAY/▲ or STOP/▼ button to point to "AM" or "PM". (Example: PM) Then, press F.FWD/▶ button.

ONE TIME PROGRAM
PROGRAM NUMBER 1
DATE 05/06 TUE
START TIME 07:30
END TIME 08:30
CHANNEL 16
REC SPEED SP
AM
PM

9 Set the channel number

Press PLAY/▲ or STOP/▼ button repeatedly until your desired channel number appears. (Example: 16)

Then, press F.FWD/▶ button.

ONE TIME PROGRAM
PROGRAM NUMBER 1
DATE 05/06 TUE
START TIME 07:30
END TIME 08:30
CHANNEL 16
REC SPEED SP

- When selecting a cable channel for the timer recording with a cable converter box or a satellite box, first set the VCR's channel to 3 or 4 whichever is the output channel of your cable converter box or your satellite box. Then set your cable converter box or your satellite box to the channel you want to record and leave the cable converter box or the satellite box on.

10 Set the tape speed

Press PLAY/▲ or STOP/▼ button repeatedly until your desired tape speed appears. (Example: SP)

ONE TIME PROGRAM
PROGRAM NUMBER 1
DATE 05/06 TUE
START TIME 07:30
END TIME 08:30
CHANNEL 16
REC SPEED SP
LP
AUTO

- "AUTO" is available only with Program No.1.

The AUTO mode starts recording in SP mode. The internal circuit compares the rest of the program against the available tape length. If the internal circuit determines that the available tape is not long enough to record the program in the SP mode, the Recording mode is automatically changed to SLP mode. This will assure coverage of the desired timer program before the end of the tape is reached. See "Just-In Time Recording" on page 27 for the use of "AUTO" setting.

11 Finish setting the program

Press F.FWD/▶ button. Program 1 is now completed.

- To set another program, repeat steps [2] to [11].
- Press MENU button to return to original mode.

12 Set the timer

Press POWER button. The TIMER indicator on the VCR comes on.

- Please see "HINTS FOR TIMER RECORDING" on page 26 for more notes.

TO CORRECT AN AUTOMATIC TIMER PROGRAM

- 1) Turn the power on and press TV/VCR button so that the TV/VCR indicator on the VCR comes on.
- 2) Repeat steps [1] to [3] on page 24.
- 3) Go to the digit you want to change by using the F.FWD/▶ button or REW/◀ button.
- 4) Enter correct numbers using PLAY/▲ or STOP/▼ button.
- 5) Press MENU button to return to original mode.
- 6) Press POWER button to return to timer stand-by mode.

TO STOP A STARTED AUTOMATIC TIMER PROGRAM

Press STOP/EJECT button on the VCR.

NOTE: STOP button on the remote control will not function in the Automatic Timer Recording mode.

TO CANCEL OR CHECK THE START/END TIME

- 1) Turn the power on and press TV/VCR button so that the TV/VCR indicator on the VCR comes on.
- 2) Press MENU button.
- 3) Select a program number you want to check using PLAY/▲ or STOP/▼ button. The details of selected program appears on the TV screen.
You may cancel the entire program by pressing REW/◀ button.
- 4) Press MENU button to return to original mode.

HINTS FOR TIMER RECORDING

- If there is a power failure or the VCR is unplugged for more than 30 seconds, the clock setting and all timer settings are lost.
- If the tape runs out before the end time, the VCR will switch to the Stop mode immediately, eject the tape and the VCR power will be turned off. The TIMER indicator will flash.
- If a tape is not inserted or the erase-protection tab is removed, the TIMER indicator flashes and timer recording cannot occur. Insert a tape that allows recording.
- The TV that is connected to your VCR may be turned ON or OFF when the VCR is in the timer-record mode.

AUTO RETURN

USING THE AUTO RETURN BUTTON

When all the timer recordings are completed (the TIMER indicator on the VCR flashes), press AUTO RETURN button on the VCR first. The VCR will rewind to the beginning of the recorded program(s).

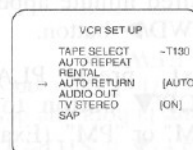
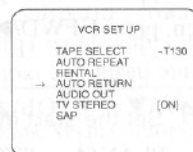
NOTE: If there are any remaining programs, press POWER button to turn on the VCR, then press AUTO RETURN button. But in this case, if you press any other button once and press AUTO RETURN button, the Auto Return will not be done.

USING THE MENU

If you select auto return to [AUTO] from the menu, when all the timer recordings are completed, the VCR will rewind to the beginning of the recorded program(s) **without pressing AUTO RETURN button**.

Make sure ...If there are any remaining programs including Daily & Weekly, this function will not be done.

- 1) Press MENU button repeatedly so that the VCR SET UP menu appears.
- 2) Press PLAY/▲ or STOP/▼ button repeatedly to point to "AUTO RETURN".
- 3) Press F.FWD/▶ button so that [AUTO] will appear next to "AUTO RETURN".
- 4) Press MENU button to return to original mode.



NOTE: To exit the auto return programming, repeat steps [1] to [2]. Then, press F.FWD/▶ button. [AUTO] will then disappear from the menu. Press MENU button to return to TV mode.

WATCH THE RECORDED PROGRAM

Press POWER button to turn on the VCR. Then, press PLAY button.

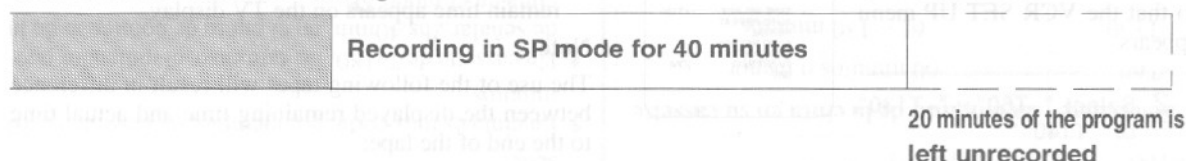
JUST-IN TIME RECORDING

This function allows you to fully utilize the available tape length for timer recording. The VCR calculates the remaining tape amount and then adjusts the tape speed from SP to SLP as needed.

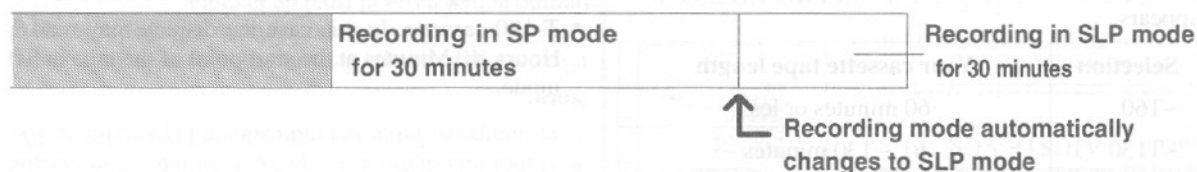
If it is suspected that the end of the tape will be reached before the reserved program ends (as long as SP mode is kept all the way), set recording mode to AUTO. This function is available only with Program No. 1 (Timer Recording).

The AUTO mode starts recording in SP mode. The internal circuit compares the rest of the program against the available tape length. If the internal circuit determines that the available tape is not long enough to record the program in the SP mode, the Recording mode is automatically changed to SLP mode. This will assure coverage of the desired timer program before the end of the tape is reached.

Conventional Video Recording



Just-in Time Recording



Notes:

- Set the tape remainder switch ("~T60", "~T130" or "~T140~") to the tape loaded. See "Setting the Remaining Time" on next page.
- Even when SLP mode is selected, just-in time recording cannot compensate for a tape length which may be too short.
- A momentary picture break up will occur at the point on the tape when the recording speed changes from SP to SLP.
- The displayed remaining tape running time may not always match the actual remaining time on the tape (usually longer than the actual time). It is recommended to set the end of the reserved recording time several minutes after the end of the TV program.

SETTING THE REMAINING TIME

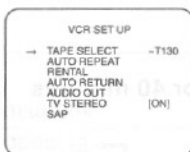
You can set the remaining tape running time of your tape. Follow the steps below to correct the tape remaining indication.

Make sure ...

- You must use the remote control for the following procedure.
- VCR power must be turned on.
- Turn on the TV and set the TV channel to the same video output channel as located on the back of the VCR. (CH 3 or 4)
- Press TV/VCR button so that the TV/VCR indicator on the VCR comes on.
- A video cassette must be inserted in the VCR for this function to work.

1 Select "VCR SET UP"

Press MENU button repeatedly so that the VCR SET UP menu appears.



2 Select "~T60", "~T130" or "T140~"

Confirm "TAPE SELECT" is pointed.

Then, press F.FWD/▶ button so that your desired time appears.

Selection	Your cassette tape length
~T60	60 minutes or less
~T130	61 ~ 130 minutes
T140~	140 minutes or greater

For example, the popular T-120 cassette tape calls for the "~T130" selection.

3 Exit the preset mode

Press MENU button to return to TV mode.

4 To check the remain time

Press DISPLAY button until RE-MAIN appears on TV screen.



Note:

- The Remain Time Mode calculation will start when the cassette tape is inserted and PLAY button is pressed.

While calculating, the TV screen shows as illustrated.

REMAINING TAPE RUNNING TIME DISPLAY

- Since the reel diameter and tape thickness are not common to all cassettes, the time count differs from cassette to cassette. Use the time display as an informative number only.
- During recording, the remaining tape running time is estimated based on the current recording mode (SP, LP, SLP).
- During playback the remaining tape running time is calculated based on the current playback mode.
- Remain time will not appear on TV screen while in the Fast forward or Rewind Mode.
- There will be a delay of up to 1 minute before the remain time appears on the TV display.

Note:

The use of the following tapes will result in difference between the displayed remaining time and actual time to the end of the tape:

- Tape housed in a VHS-C cassette adapter.
- Shorter tape length such as a 10-minute cassette
- T-180 cassette. In this case the display may read 2 Hours, 40 Minutes at the start point of the tape in SP mode.

COPYING A VIDEO TAPE

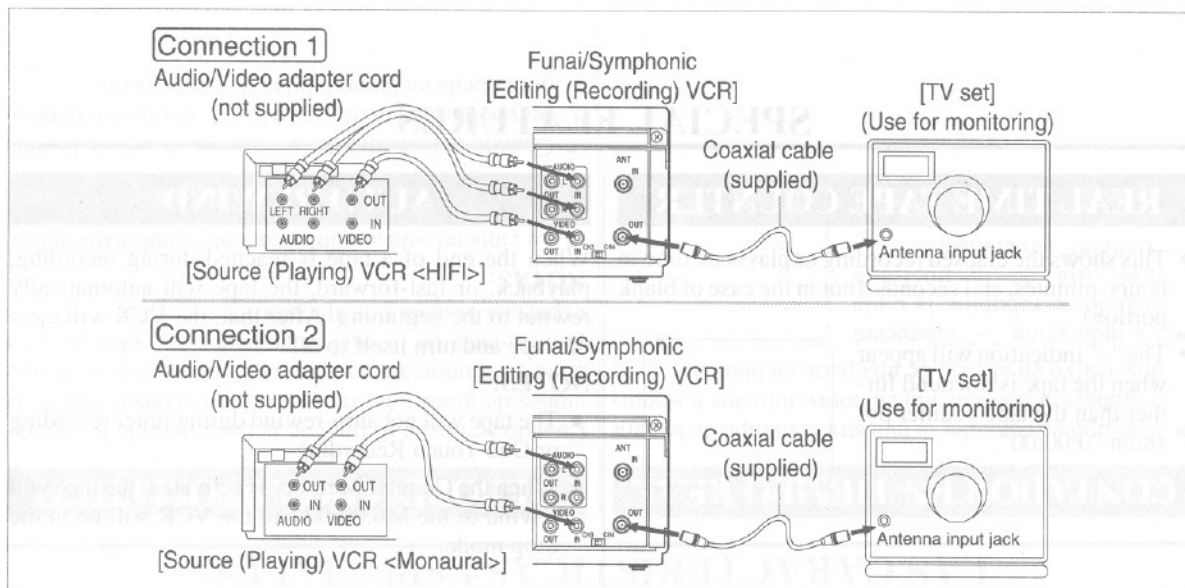
You can make copies of video tapes made by friends or relatives for your enjoyment.

WARNING: Unauthorized recordings of copyrighted video tapes may be an infringement of copyright laws.

Connect the Funai/Symphonic editing (recording) VCR, source (playing) VCR and your TV using the following diagram.

NOTES:

- You can use the audio and video input jacks on the front panel of the Funai/Symphonic editing (recording) VCR instead of using jacks on the back.
- When you connect the monaural VCR(another source) to this VCR, connect the Audio output jack of the monaural VCR(another source) to the AUDIO IN L jack of this VCR. The audio signal will be recorded in both L and R channel equally.



- 1) Insert a pre-recorded video cassette into the source(playing) VCR.
- 2) Insert a blank video cassette, or one you want to record over, into the Funai/Symphonic editing(recording) VCR cassette compartment.
- 3) Press TAPE SPEED button on the Funai/Symphonic editing(recording) VCR to select the desired recording speed (SP/LP/SLP).
- 4) Select L1 or L2 position on the Funai/Symphonic editing(recording) VCR. See page 11, under "Input Select".
- 5) Press REC button on the Funai/Symphonic editing (recording) VCR.
- 6) Begin playback of the tape in the source(playing) VCR.

NOTES:

- For best results during dubbing, use the VCR's front panel controls whenever possible. The remote control might affect the playback VCR's operation.
- Always use video-quality shielded cables with RCA-type connectors. Standard audio cables are not recommended.
- You can use a video disc player, satellite receiver, or other audio/video component with A/V outputs in place of the playback VCR.

TO MONITOR THE RECORDING

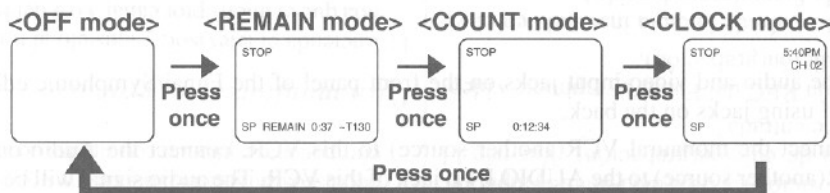
- 1) Turn on the TV, and set it to the same output channel as the Funai/Symphonic editing(recording) VCR channel 3 or 4.
- 2) Press TV/VCR button on the Funai/Symphonic editing(recording) VCR so that the TV/VCR indicator on the VCR comes on.

ON SCREEN DISPLAY

NOTE: Both POWER and TV/VCR indicator must be on the VCR for this function to work.

- To check the **Remain, Count, Clock and Channel number**, press DISPLAY button.

Each time you press DISPLAY button, TV screen will change as the illustration:



SPECIAL FEATURES

REAL TIME TAPE COUNTER

- This shows the elapsed recording or playback time in hours, minutes, and seconds. (not in the case of blank portion)
- The "-" indication will appear when the tape is rewound further than the tape counter position "0:00:00".



AUTO REWIND

When the end of a tape is reached during recording, playback, or fast-forward, the tape will automatically rewind to the beginning. After that, the VCR will eject the tape and turn itself to off.

NOTES:

- The tape will not auto-rewind during timer recording or One Touch Recording.
- When the Counter Memory is activated, the tape will rewind to the M0:00:00 and the VCR will be in the Stop mode.

CONTROLLING YOUR TV OR CABLE CONVERTER WITH THE VCR'S REMOTE

Your VCR remote control may operate your TV or cable converter.

REMOTE CONTROL OF THE TV

PROGRAMMING THE REMOTE CONTROL TO OPERATE YOUR TV

Make sure ...

- Turn on the TV (any channel is OK).
- 1) Press the VOLUME ▼ button.
- 2) Press the TV button (not the TV/VCR button).
- 3) Press the number corresponding to the brand of your TV as shown in the chart. Then, press the ENTER button.

For example: If you have an RCA TV, press 0, then 8 button. Then, press the ENTER button.

TV Brand Codes

FISHER	09	PHILIPS	02
FUNAI	01	QUASER	07
GE	08	RCA	08
GOLDSTAR	10	SAMSUNG	11
HITACHI	03	SANYO	09
MAGNAVOX	02	SHARP	06
PANASONIC	07	SONY	05
PANASONIC-GAIOO	07	SYMPHONIC	01
PHILCO	02	TOSHIBA	04

- 4) Aim the remote control at your TV, then press the CHANNEL ▲ button. If the channel changes on the TV, you are finished.

NOTES:

- If your brand of TV is not listed in the chart, try all the number of the TV brand codes listed. One of them may work for you.
- If the TV channel still doesn't change after going through all the TV brand codes listed, it is likely that you will not be able to program this remote control for your TV.

CONTROLLING THE TV

1 Select the TV function mode

Press TV button. Then press a button of the TV function that you want.

(Example: press TV button then the CHANNEL ▲ button, the next higher station will appear.)

Note: Also, you may change the channels at the TV by using the number buttons. If you can not change the channels at the TV by using the number buttons, press the ENTER button after you press the number buttons. It may change channels at the TV.

2 Return to the VCR function mode

Press VCR button to operate your VCR with the remote control again.

REMOTE CONTROL OF THE CABLE CONVERTER

If you have a cable converter, you will probably want to program your VCR's remote control so you can easily change channels. The process is the same as for programming the remote to operate your TV.

PROGRAMMING THE REMOTE CONTROL TO OPERATE YOUR CABLE CONVERTER

Make sure ...

- Turn on the cable converter (any channel is OK).
- 1) Press the VOLUME ▼ button.
- 2) Press the CABLE button.
- 3) Press the number corresponding to the brand of your cable converter as shown in the chart. Then, press the ENTER button.

For example; If you have a HAMLIN cable converter, press 0, then 6 button. Then, press the ENTER button.

Cable Converter Brand Codes

HAMLIN	06
JERROLD	01, 02, 03
OAK	08
PANASONIC	05
SCIENTIFIC ATLANTA	04
TOCOM	07

- 4) Aim the remote control at your cable converter, then press the CHANNEL ▲ button. If the channel changes on the cable converter, you are finished.

NOTES:

- If your brand of cable converter is not listed in the chart, try all the number of the cable converter brand codes listed. One of them may work for you.
- If the cable converter channel still doesn't change after going through all the cable converter brand codes listed, it is likely that you will not be able to program this remote control for your cable converter.

There is no guarantee that the VCR remote control will handle your cable converter perfectly.

Once you have programmed the remote control, you will have to do it again whenever you change the batteries.

CONTROLLING THE CABLE CONVERTER

1 Select the CABLE function mode

Press CABLE button. Then press a button of the CABLE function that you want.

(Example: press CABLE button then the CHANNEL ▲ button, the next higher station will appear.)

Note: Also, you may change the channels at the cable converter by using the number buttons. If you can not change the channels at the cable converter by using the number buttons, press the ENTER button after you press the number buttons. It may change channels at the cable converter.

2 Return to the VCR function mode

Press VCR button to operate your VCR with the remote control again.

TROUBLESHOOTING GUIDE

If you have followed the instructions contained in this manual and have difficulty in operating your VCR, locate the SYMPTOM in the left column below. Check the corresponding POSSIBLE CAUSE and CORRECTIVE ACTION columns to remedy the problem.

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
No power.	• Power cord is not connected. • The VCR power is turned off.	• Connect power cord to AC outlet. • Press POWER button to turn on the VCR.
Timer recording is not possible.	• The timer recording is set incorrectly. • The VCR power is turned on. • VCR clock is not set correctly.	• Set the timer recording correctly. • Press POWER button to turn off the VCR. • Set VCR clock correctly.
Recording mode cannot be engaged.	• The erase prevention tab on cassette is missing.	• Place a plastic tape over the hole.
No picture or poor picture on playback.	• The TV and/or VCR is in the TV mode. • The TV fine tuning is not set correctly.	• Set your TV to the VCR mode and/or press TV/VCR button so that the TV/VCR indicator on the VCR comes on. • Fine tune your TV.
No picture but the audio is OK in playback.	• Video heads are dirty.	• Head cleaning is necessary, consult the nearest Funai Authorized Service Center.
Playback picture is partially noisy.	• The tracking control is not set correctly.	• Adjust tracking control for a better picture using CHANNEL ▲ or ▼ button. See page 18.
On-the-air TV programs cannot be seen.	• Connections are not correctly made. • The TV and/or VCR is in the VCR mode.	• Re-check the ANT. IN and ANT. OUT connections. See page 10. • Set your TV to the TV mode and/or press TV/VCR button so that the TV/VCR indicator on the VCR disappears.
No operation by infrared Remote Control.	• Weak batteries. • The TV or CABLE button is pressed.	• Check the batteries in the remote control. • Press VCR button on the remote control, then try again.
Operation buttons do not work after there is a power failure or you move your VCR.	• Channel Memory Programming is required because programmed channels are erased.	• See "NOTES" under "AUTOMATIC CHANNEL PRESET" on page 12.
Video or color fades in and out when making a copy of a video tape.	• You are copying a copyrighted video tape and are experiencing copy guard protection.	• None.

MAINTENANCE

SERVICING

Should your VCR become inoperative, do not try to correct the problem by yourself. There are no user-serviceable parts inside. Turn off, unplug the power cord, and take the unit to Funai Authorized Service Center for servicing.

CABINET CLEANING

- Wipe the front panel and other exterior surfaces of the VCR with a soft cloth immersed in lukewarm water and wrung dry.
- Never use a solvent or alcohol. Do not spray insecticide liquid near the VCR. Such chemicals may cause damage and discoloration to the exposed surfaces.

AUTO HEAD CLEANING

- Automatically cleans heads as you insert or remove a cassette, so you can see the clear picture.
- Playback picture may become blurred or interrupted while the TV program reception is clear. Dirt accumulated on the video heads after long periods of use, or the usage of rental or worn tapes can cause this problem.

If a streaky or snowy picture appears during playback, the heads of your VCR may need to be cleaned.

1. Please visit your local Audio/Video store and purchase a good quality VHS Video Head Cleaner.
2. If a Video Head Cleaner does not solve the problem, consult the nearest Funai Authorized Service Center. Professional video head cleaning requires highly technical attention.

NOTES:

- Remember to read the instructions included with the head cleaner before use.
- Clean heads only when problems occur.

SPECIFICATIONS

GENERAL SPECIFICATIONS

Television system :	NTSC, TV standard
Video heads :	Rotary four-head
Tape width :	1/2inch (12.65mm)
Tape speed	
SP :	33.35mm/sec.
LP :	16.67mm/sec.
SLP :	11.12mm/sec.
Tuner channel	
VHF :	#2~#13
UHF :	#14~#69
Cable channel :	5A, A-5 ~ A-1, A ~ W+84
RF converter :	Built-in VHF converter
Converter output :	VHF Channel 3 or 4.
Timer indication :	AM/PM 12-hour system
Operating temperature :	5°C~40°C (41°F~104°F)
Terminals	
Antenna input :	F type connector x 1
Antenna output :	F type connector x 1
Video input/output :	RCA connector x 3
Audio input/output :	RCA connector x 6

ELECTRICAL SPECIFICATIONS

Video output level :	1Vp-p
Video output impedance :	75Ω
Audio output level :	-6dBv (1KHz)
Video input level :	0.5~2.0Vp-p
Audio input level :	-10dBv
Video S/N ratio	
SP:	More than 45dB
Audio S/N ratio	
(Normal audio track):	More than 38dB
(Hi-Fi audio track):	More than 40dB

OTHER SPECIFICATIONS

Power requirement :	120V, 60Hz
Power consumption :	20 Watts
Dimensions :	W 14-1/4" (360mm)
	H 3-5/8" (92mm)
	D 9-1/16" (230mm)
Weight :	6.17 lbs. (2.8 Kg.) (approx.)

- Designs and specifications are subject to change without notice and without our legal obligation.

CABLE CHANNEL DESIGNATIONS

If you subscribe to cable TV, the channels are displayed as 1-125.

Cable companies often designate channels with letters or letter-number combinations. Please check with your local cable company. The following is a chart of common cable channel designations.

CATV Channel	5A	2	3	4	5	6	7	8	9	10	11	12	13	A	B
VCR Display	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
CATV Channel	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
VCR Display	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
CATV Channel	R	S	T	U	V	W	W+1	W+2	W+3	W+4	W+5	W+6	W+7	W+8	W+9
VCR Display	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
CATV Channel	W+10	W+11	W+12	W+13	W+14	W+15	W+16	W+17	W+18	W+19	W+20	W+21	W+22	W+23	W+24
VCR Display	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CATV Channel	W+25	W+26	W+27	W+28	W+29	W+30	W+31	W+32	W+33	W+34	W+35	W+36	W+37	W+38	W+39
VCR Display	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
CATV Channel	W+40	W+41	W+42	W+43	W+44	W+45	W+46	W+47	W+48	W+49	W+50	W+51	W+52	W+53	W+54
VCR Display	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
CATV Channel	W+55	W+56	W+57	W+58	A-5	A-4	A-3	A-2	A-1	W+59	W+60	W+61	W+62	W+63	W+64
VCR Display	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105
CATV Channel	W+65	W+66	W+67	W+68	W+69	W+70	W+71	W+72	W+73	W+74	W+75	W+76	W+77	W+78	W+79
VCR Display	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
CATV Channel	W+80	W+81	W+82	W+83	W+84										
VCR Display	121	122	123	124	125										

SYLVANIA

LIMITED WARRANTY

FUNAI CORP. will repair this SYLVANIA product, free of charge in the USA in the event of defect in materials or workmanship as follows:

DURATION:

PARTS: FUNAI CORP. will provide parts to replace defective parts without charge for one (1) year from the date of original retail purchase. Two (2) years for Picture Tube. Certain parts are excluded from this warranty.

LABOR: FUNAI CORP. will provide the labor without charge for a period of ninety (90) days from the date of original retail purchase.

LIMITS AND EXCLUSIONS:

This warranty is extended only to the original retail purchaser. A purchase receipt or other proof of original retail purchase will be required together with the product to obtain service under this warranty.

This warranty shall not be extended to any other person or transferee.

This warranty is void and of no effect if any serial numbers on the product are altered, replaced, defaced or missing. This FUNAI CORPORATION Limited warranty does not apply to any the product not purchased and used in the United States.

This warranty only covers failures due to defects in material or workmanship which occur during normal use. It does not cover damage which occurs in shipment, or failures which are caused by repairs, alterations or product not supplied by FUNAI CORP., or damage which results from accident, misuse, abuse, mishandling, misapplication, alteration, faulty installation, improper maintenance, commercial use such as hotel, rental or office use of this product or damage which results from fire, flood, lightning or other acts of God.

THIS WARRANTY DOES NOT COVER PACKING MATERIALS, ANY ACCESSORIES (EXCEPT REMOTE CONTROL), ANY COSMETIC PARTS, COMPLETE ASSEMBLY PARTS, DEMO OR FLOOR MODELS.

FUNAI CORP. AND ITS REPRESENTATIVES OR AGENTS SHALL IN NO EVENT BE LIABLE FOR ANY GENERAL, INDIRECT OR CONSEQUENTIAL DAMAGES ARISING OUT OF OR OCCASIONED BY THE USE OF OR THE INABILITY TO USE THIS PRODUCT. THIS WARRANTY IS MADE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AND OF ALL OTHER LIABILITIES ON THE PART OF FUNAI, ALL OTHER WARRANTIES INCLUDING THE WARRANTY OF MERCHANTABILITY, AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY DISCLAIMED BY FUNAI AND ITS REPRESENTATIVES IN THE UNITED STATES. ALL WARRANTY INSPECTIONS AND REPAIRS MUST BE PERFORMED BY FUNAI AUTHORIZED SERVICE CENTER. THIS WARRANTY IS VALID WHEN THE UNIT IS CARRIED-IN TO FUNAI AUTHORIZED SERVICE FACILITY.

WHEN YOU ARE RETURNING THE PRODUCT FOR SERVICE TO THE FACTORY SERVICE CENTER, PLEASE CONTACT THE FUNAI SERVICE DEPARTMENT TO RECEIVE A R.A. (REPAIR AUTHORIZATION) NUMBER PRIOR TO SHIPPING. ANY POSTAGE, INSURANCE AND SHIPPING COST, INCURRED IN PRESENTING OR SENDING YOUR SYLVANIA PRODUCT FOR SERVICE ARE SHIPPER'S RESPONSIBILITY.

CAREFULLY PACK WITH PROPER PACKING MATERIALS, PREFERABLY IN THE ORIGINAL CARTON.

ATTACH WRITTEN DOCUMENTATION DETAILING THE COMPLAINT, TO THE OUTSIDE OR INSIDE OF THE CARTON.

THE PRODUCT MUST BE ACCOMPANIED BY A COPY OF THE ORIGINAL RETAIL PURCHASE RECEIPT. IF NO PROOF OF PURCHASE IS ATTACHED, THE WARRANTY WILL NOT BE HONORED AND REPAIRS COSTS WILL BE CHARGED.

IMPORTANT:

THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY HAVE OTHER RIGHTS THAT VARY FROM STATE TO STATE, IF, AT ANY TIME DURING THE WARRANTY PERIOD, YOU ARE UNABLE TO OBTAIN SATISFACTION WITH THE REPAIR OF THIS PRODUCT, PLEASE CONTACT FUNAI CORP.

ATTENTION:

FUNAI CORP. RESERVES THE RIGHT TO MODIFY ANY DESIGN OF THIS PRODUCT WITHOUT PRIOR NOTICE.

For information of your nearest SYLVANIA Authorized Service Center or general service procedure, please call or write to the following:

FUNAI CORPORATION
Factory Service Center
100 North Street; Teterboro, NJ 07608
Tel :1-800-968-3429
(Eastern Time 9:00 AM - 4:30 PM / Monday - Friday)