

OWNER'S MANUAL

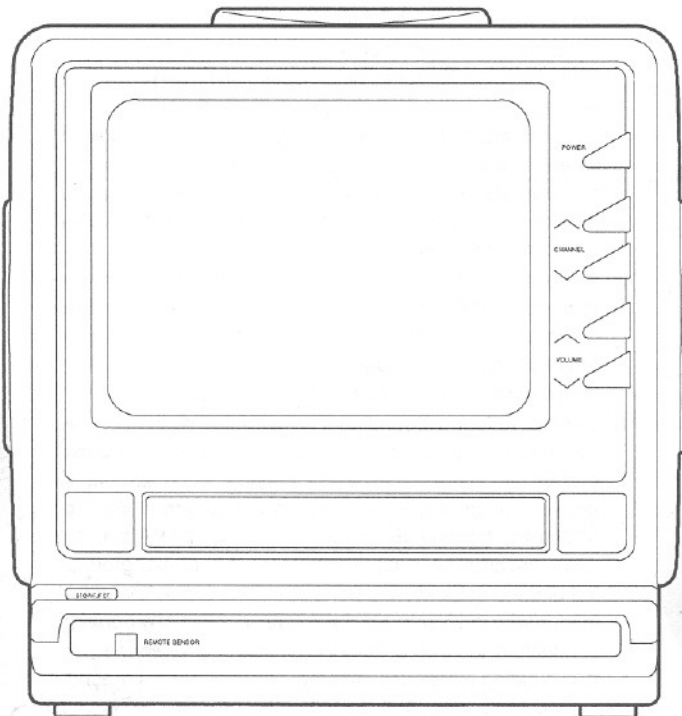
TVCP9T1

9-INCH COLOR TV/VCP SC-91B

Symphonic

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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.



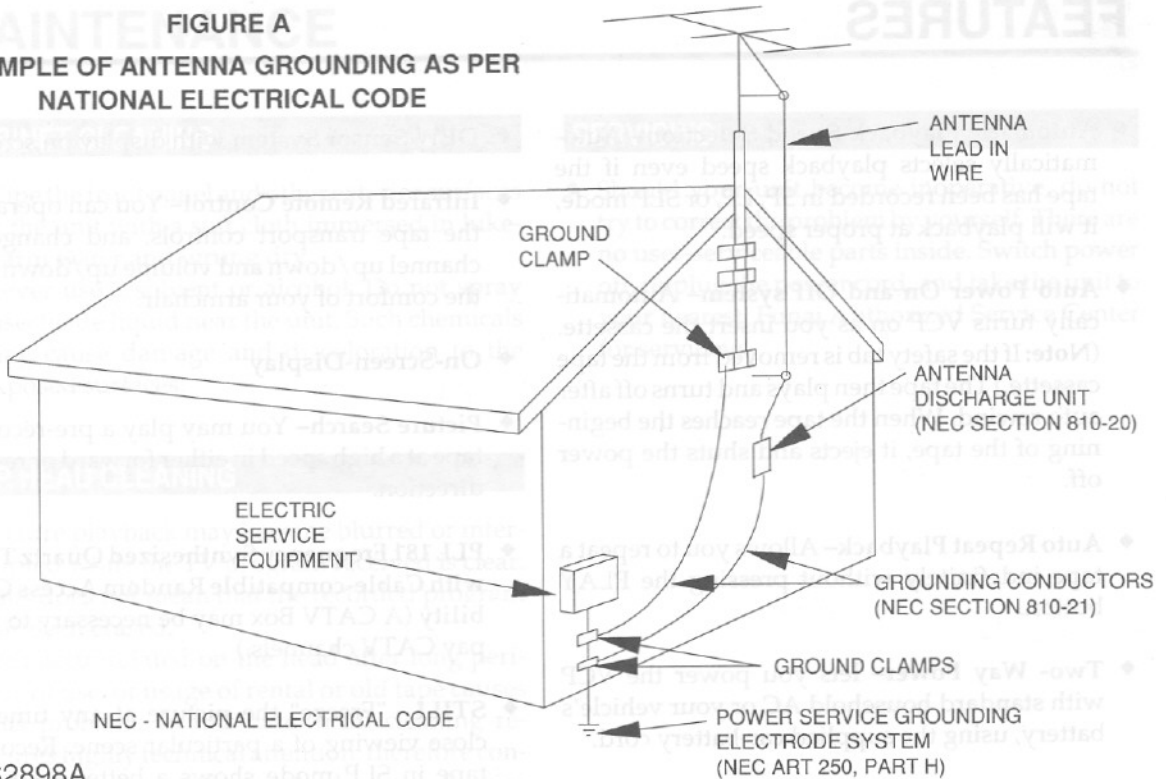
THIS SYMBOL INDICATES THAT THERE ARE IMPORTANT OPERATING AND MAINTENANCE INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.

"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 TV 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 TV manufacturer as they may cause hazards.
 7. Water and Moisture-Do not use this TV 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 TV on an unstable cart, stand, tripod, bracket, or table. The TV may fall, causing serious injury to someone, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the TV. 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 appliance and cart combination to overturn.
- PORTABLE CART WARNING
-
- S3126A
9. Ventilation-Slots and openings in the cabinet and the back or bottom are provided for ventilation and to ensure reliable operation of the TV and to protect it from overheating, these openings must not be blocked or covered. The openings should never be blocked by placing the TV on a bed, sofa, rug, or other similar surface. This TV should never be placed near or over a radiator or heat register. This TV 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 TV 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 TVs intended to operate from battery power, or other sources, refer to the operating instructions.
 11. Grounding or Polarization-This TV 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 you 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 TV, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984, provides information with respect 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



NEC - NATIONAL ELECTRICAL CODE

S2898A

14. Lightning-For added protection for this TV receiver 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 TV 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 of 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 TV through opening as they may touch dangerous voltage points or shortout parts that could result in a fire or electric shock. Never spill liquid of any kind on the TV.
18. Servicing-Do not attempt to service this TV 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 TV from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - a. When the powersupply cord or plug is damaged or trayed.
 - b. If liquid has been spilled, or objects have fallen into the TV.
 - c. If the TV has been exposed to rain or water.
 - d. If the TV does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the TV to its normal operation.
 - e. If the TV has been dropped or the cabinet has been damaged.
 - f. When the TV 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 had used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, injury to persons or other hazards.
21. Safety Check-Upon completion of any service or repairs to this TV, ask the service technician to perform routine safety checks to determine that the TV is in proper operating condition.

FEATURES

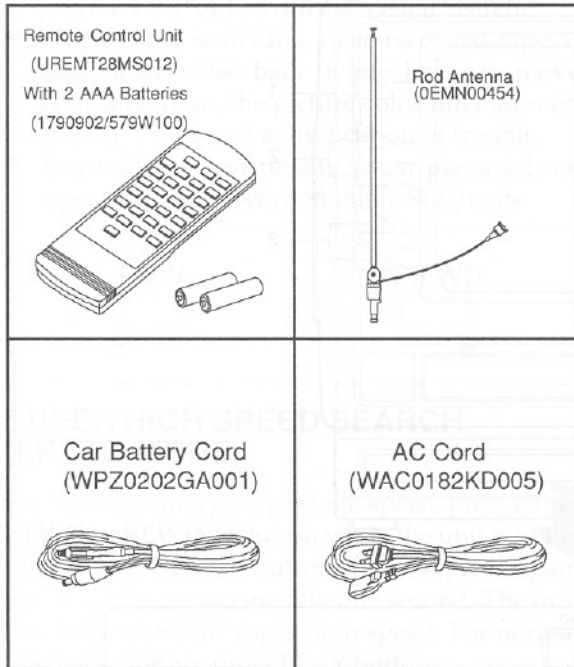
- ◆ **Automatic Playback Speed Selection**– Automatically selects playback speed even if the tape has been recorded in SP, LP, or SLP mode, it will playback at proper speed.
- ◆ **Auto Power On and Off system**– Automatically turns VCP on as you insert the cassette. (Note: If the safety tab is removed from the tape cassette.) The tape then plays and turns off after auto rewind. When the tape reaches the beginning of the tape, it ejects and shuts the power off.
- ◆ **Auto Repeat Playback**– Allows you to repeat a tape indefinitely without pressing the PLAY button.
- ◆ **Two- Way Power**– lets you power the VCP with standard household AC or your vehicle's battery, using the supplied car-battery cord.
- ◆ **Automatic Degaussing** when Power is turned off.
- ◆ **DEW Sensor System** with display on screen
- ◆ **Infrared Remote Control**– You can operate all the tape transport controls, and change the channel up/down and volume up/down from the comfort of your armchair.
- ◆ **On-Screen-Display**
- ◆ **Picture Search**– You may play a pre-recorded tape at a high speed in either forward or reverse direction.
- ◆ **PLL 181 Frequency Synthesized Quartz Tuner with Cable-compatible Random Access Capability** (A CATV Box may be necessary to view pay CATV channels.)
- ◆ **STILL**– "Freeze" the picture at any time, for close viewing of a particular scene. Recorded tape in SLP mode shows a better clear (still frame) picture.

The serial number of this product may be found on the back of the unit. 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 Purchased from	
Dealer Address	
Dealer Phone No.	
Model No.	SC-91B
Serial No.	

PRECAUTIONS

SUPPLIED ACCESSORIES



LOCATION

For safe operation and satisfactory performance of your unit, 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 unit. 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 unit near strong magnetic fields.
- ◆ Do not move the unit from a cold to a hot place or vice versa.

AVOID THE HAZARDS OF ELECTRICAL SHOCK AND FIRE

- ◆ Do not handle the power cord with wet hands.
- ◆ Do not pull out the power cord when disconnecting it from an AC wall outlet. Grasp it by the plug.
- ◆ If, by accident, water is spilled on your unit, unplug the power cord immediately and take the unit to an authorized video service center for servicing.
- ◆ Do not put your fingers or objects into the VCP cassette holder.
- ◆ Do not place anything directly on top of the unit.

DEW WARNING/INDICATOR

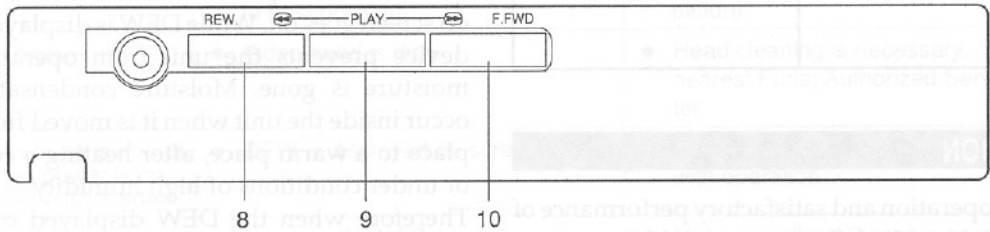
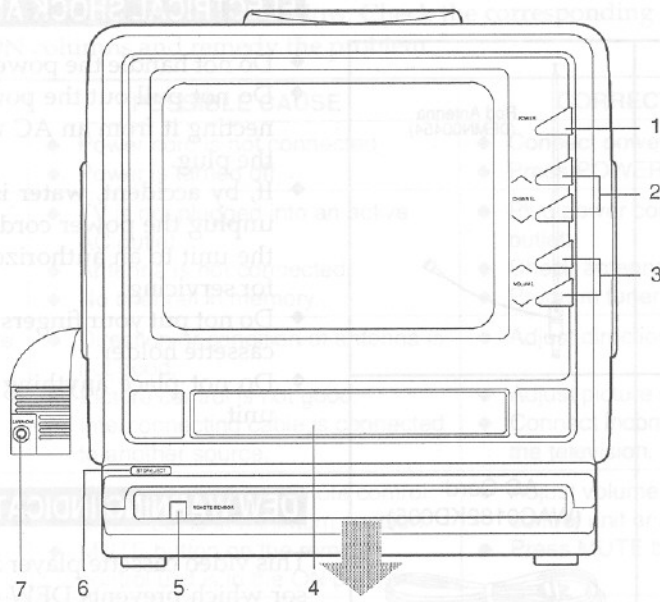
This video cassette player is equipped with a sensor which prevents DEW condensation. If excessive moisture is present inside the unit, the DEW on screen goes on. While DEW is displayed, safety device prevents the unit from operating until moisture is gone. Moisture condensation may occur inside the unit when it is moved from a cold place to a warm place, after heating a cold room or under conditions of high humidity.

Therefore when the DEW displayed on screen, leave the POWER on and allow at least 2 hours for the unit to dry out.

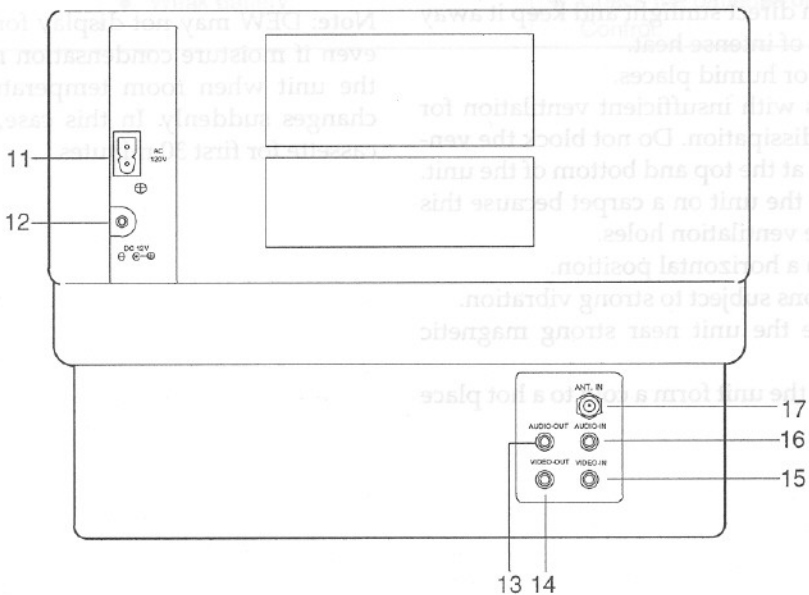
Note: DEW may not display for first 15 minutes even if moisture condensation may occur inside the unit when room temperature or humidity changes suddenly. In this case, do not insert a cassette for first 30 minutes.

OPERATING CONTROLS AND FUNCTIONS

— FRONT VIEW —

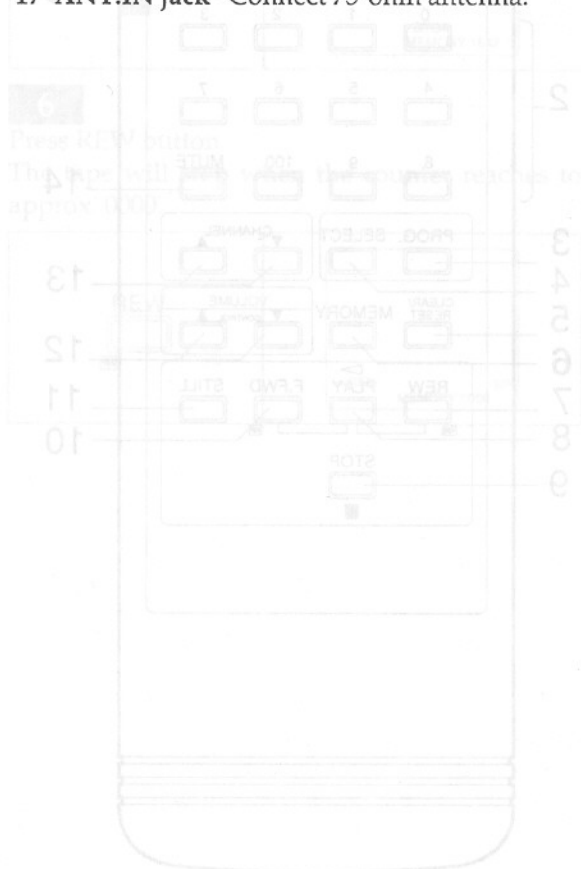


— REAR VIEW —



- 1 **POWER button**— To turn the unit on and off.
- 2 **CHANNEL " \wedge " or " \vee " buttons**— To select the channel for viewing.
- 3 **VOLUME " \wedge " or " \vee " buttons**— To adjust the volume level.
- 4 **CASSETTE COMPARTMENT**
- 5 **REMOTE SENSOR**— Receives the infrared control signals from the handheld remote control unit.
- 6 **STOP/EJECT button**— To stop tape motion and remove the tape from VCP.
- 7 **EARPHONE jack**— To connect earphones (not supplied) for personal listening.
- 8 **REW. button**— To rewind tape, or to view video in reverse direction during play mode at a faster than normal speed. Press PLAY button to return VCP to normal playback speed.
- 9 **PLAY button**— To begin playback of a tape.

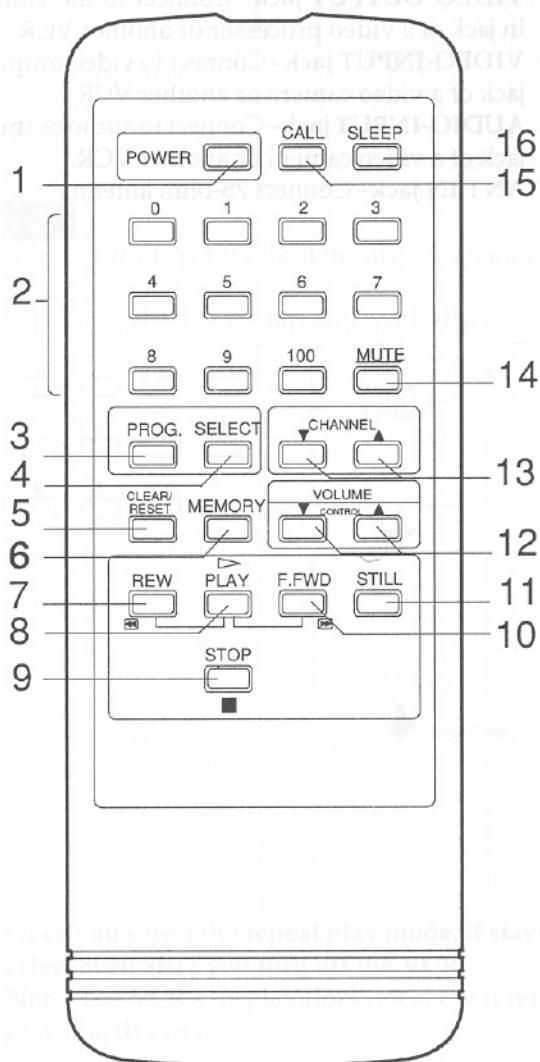
- 10 **F.FWD button**— To advance tape faster than normal or to view video in forward direction during play mode at a faster than normal speed. Press PLAY button to return VCP to normal playback speed.
- 11 **AC 120V**— Connect the AC cord.
- 12 **DC 12V**— Connect the Car battery cord.
- 13 **AUDIO-OUTPUT jack**— Connect to the line in jack of a audio equipment or another VCR.
- 14 **VIDEO-OUTPUT jack**— Connect to the video in jack of a video processor or another VCR.
- 15 **VIDEO-INPUT jack**— Connect to video output jack of a video camera or another VCR.
- 16 **AUDIO-INPUT jack**— Connect to audio output jack of a video camera or another VCR.
- 17 **ANT.IN jack**— Connect 75-ohm antenna.



REMOTE CONTROL OPERATION

You can operate most of functions from the Remote Control (included). The buttons on the Remote Control have the same functions as the corresponding buttons on the unit.

HOW TO USE REMOTE CONTROL

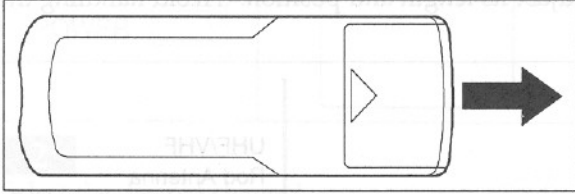


- 1 POWER button**— To turn the unit on and off.
- 2 NUMBER buttons**— To select desired channels. To select channels 1 to 9, first press the 0 button and then press desired channel button 1 to 9.
100 button— To select channels which are equal or greater than number 100.
- 3 PROG. button**— To set CLOCK, REPEAT MODE, and PRESETTING OF THE CHANNELS.
- 4 SELECT button**— To select setting mode and adjust picture controls. (See page 19 step 4.)
- 5 CLEAR/RESET button**— To reset counter to 0000. And channel memory delete. (See page 17 and 21.)
- 6 MEMORY button**— To set counter memory-in. And channel memory add. (See page 17 and 21.)
- 7 REW button**— To rewind tape, or to view video in reverse direction during play mode at a faster than normal speed. Press PLAY button to return normal playback speed.
- 8 PLAY button**— To playback the tape.
- 9 STOP button**— To stop tape motion.
- 10 F.FWD button**— To advance tape, or to view video in forward direction during play mode at a faster than normal speed. Press PLAY button to return normal playback speed.
- 11 STILL button**— To view a still picture during playback.
- 12 VOLUME buttons**— To adjust desired volume level by pressing either "▲" or "▼" button. They may also be used to adjust the picture control.
- 13 CHANNEL buttons**— To select desired channel number by pressing either "▲" or "▼" button. They may also be used to adjust tracking control when tape is in play mode.
- 14 MUTE button**— To mute sound. Press again to resume sound.
- 15 CALL button**— To call channel display, counter number, and the current time on the screen. (See page 21.)
- 16 SLEEP button**— To activate the sleep function. (See page 20.)

INSTALLING THE BATTERIES

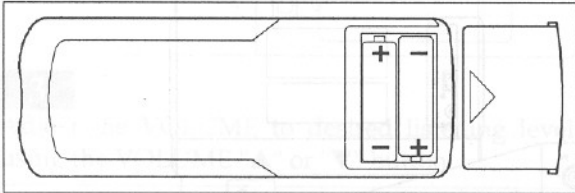
1

Slide the battery compartment cover by pressing the cover on the remote unit in the direction of the arrow.



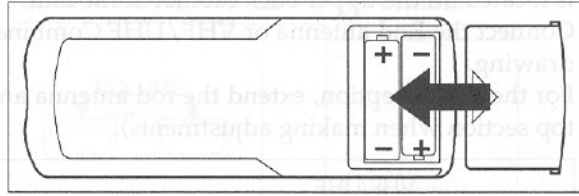
2

Insert 2 "AAA" penlight batteries into the battery compartment in the direction as indicated by the polarity (+/-) markings.



3

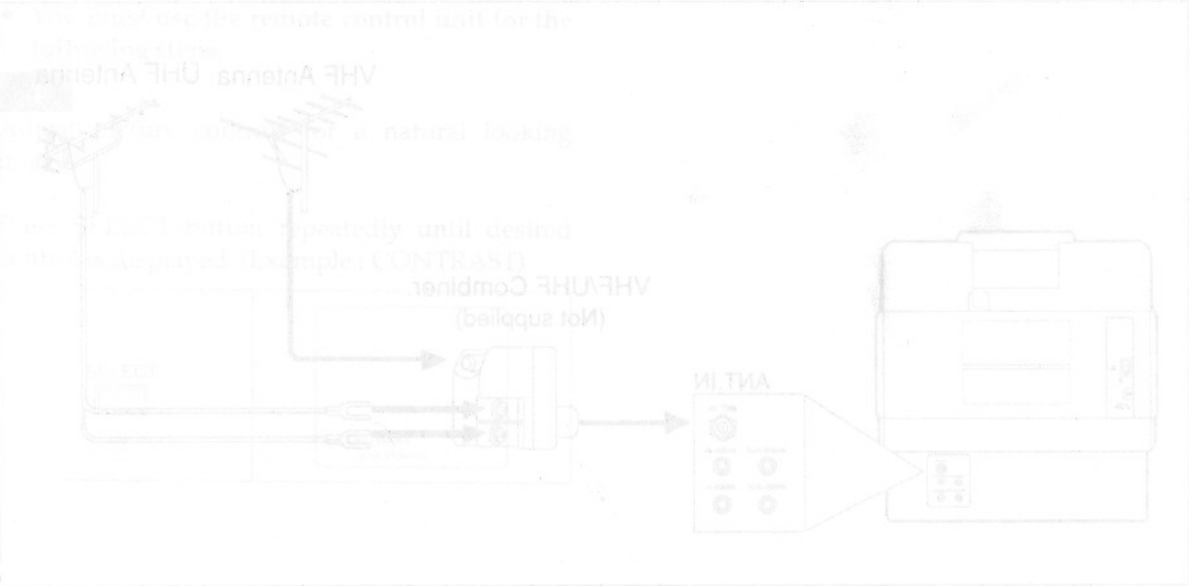
Replace the cover.



	CONTROL	CONTROL & LIGHTING
BRIGHT	to decrease contrast	to increase contrast
THIRD	to decrease brightness	to increase brightness

THE VHF SEPARATE ANTENNAS

In some areas it will be necessary to use an outdoor antenna



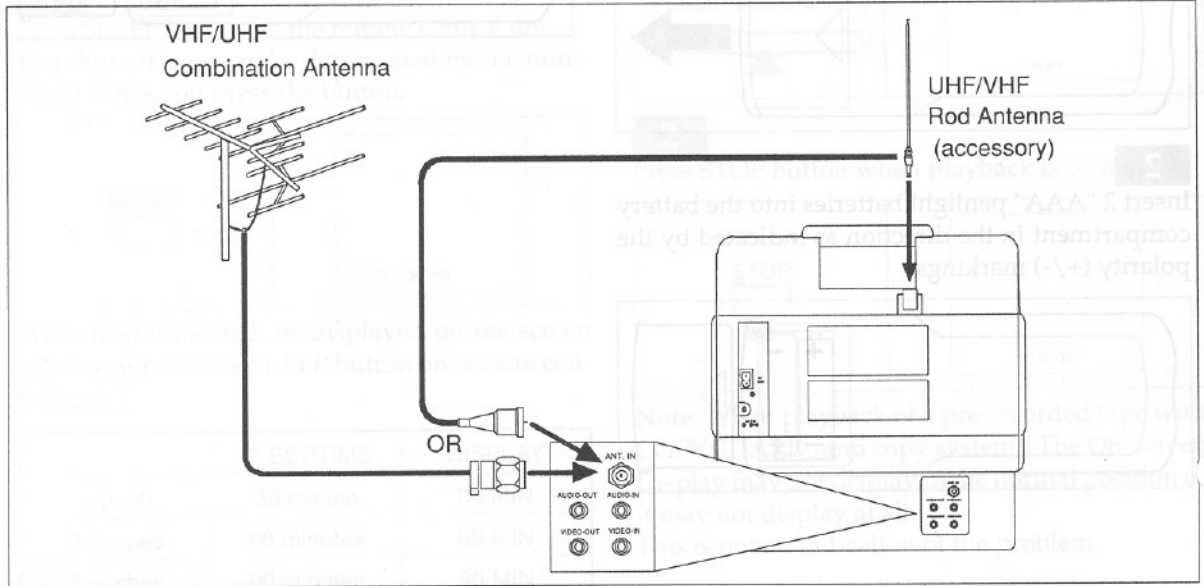
ANTENNA CONNECTIONS

VHF/UHF COMBINED ANTENNA

The UHF/VHF Rod Antenna(supplied) is detachable. Push the stem of the antenna into the hole which is located on the upper back cabinet of the unit.

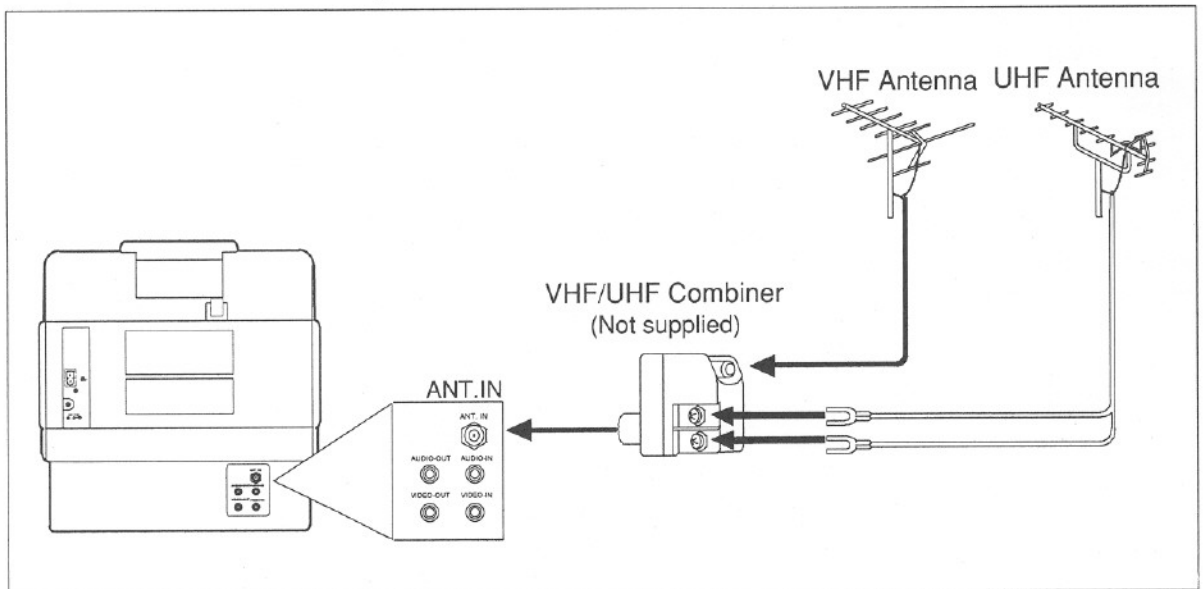
Connect the Rod antenna or VHF/UHF Combination Antenna to ANT.IN terminal of TV as shown in drawing.

For the best reception, extend the rod antenna and adjust its length and position. (Avoid handling the top section when making adjustments).

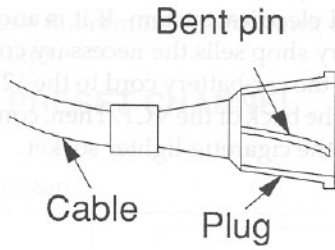


UHF/VHF SEPARATE ANTENNAS

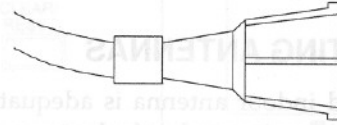
In some areas it will be necessary to use an outdoor antenna.



Note :
 Before plugging the Rod antenna into antenna terminal, check that the pin is not bent. If it is bent, straighten the pin as illustrated, then plug the pin into antenna terminal.

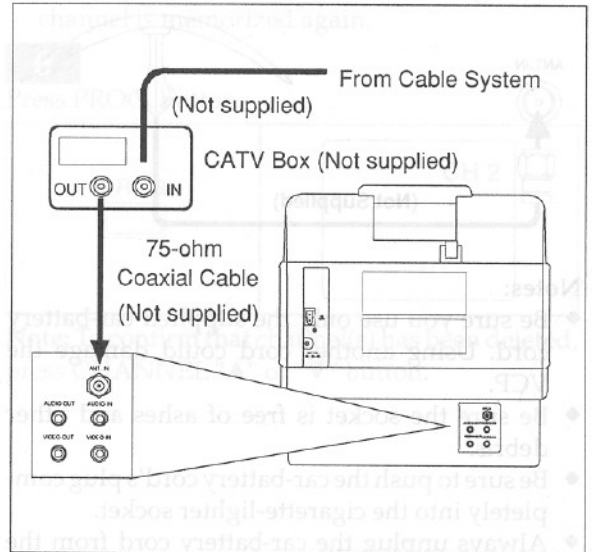
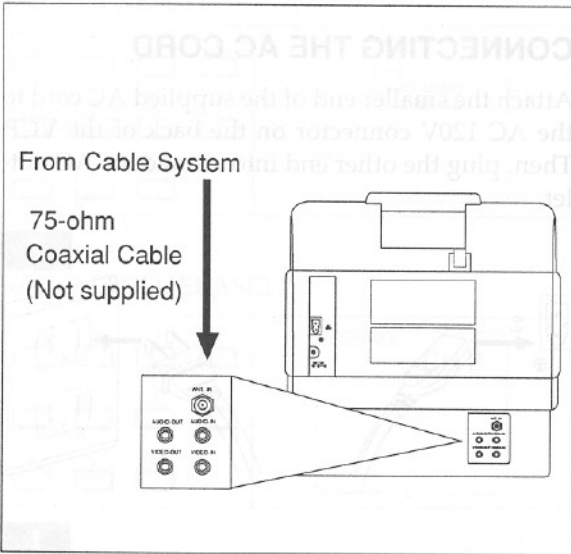


(Needs to be straightened)



(Straight pin)

CABLE WITH PAY TV



EXTERNAL INPUT MODE

When using an external input signal, connect the audio/video cable to the AUDIO IN, VIDEO IN JACKS.
Note: Disconnect all cables from the AUDIO IN and VIDEO IN jacks to record TV programs.

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.

MOBILE INSTALLATION

You can power the VCP with your vehicle's battery. This lets you and others enjoy the system outdoors and lets your passengers enjoy the system on the road.

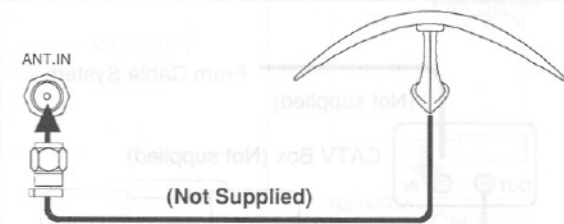
Warning: Never watch the VCP while you drive your car.

CONNECTING ANTENNAS

The supplied indoor antenna is adequate when your vehicle is stationary, but for best reception on the road, use a high-quality VHF/UHF mobile TV antenna, available at your local store.

If you use the supplied antenna, refer to "Connecting the Indoor Antenna" for the proper connection. If you use a mobile antenna, refer to the instructions provided with the antenna.

VHF/UHF Combination Antenna



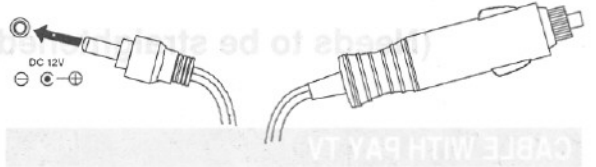
Notes:

- ◆ Be sure you use only the supplied car-battery cord. Using another cord could damage the VCP.
- ◆ Be sure the socket is free of ashes and other debris.
- ◆ Be sure to push the car-battery cord's plug completely into the cigarette-lighter socket.
- ◆ Always unplug the car-battery cord from the cigarette-lighter socket before you unplug it from the VCP.
- ◆ You must disconnect the car-battery cord from the VCP before you can use AC power.

CONNECTING THE CAR-BATTERY CORD

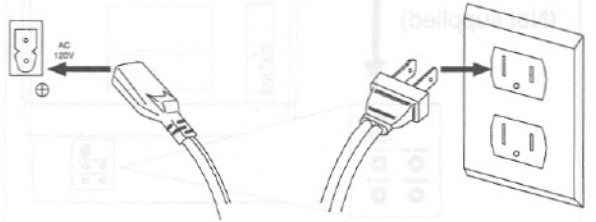
Be sure your vehicle has a 12-volt, negative-ground electrical system. If it is another type, car accessory shop sells the necessary converter.

Attach the car-battery cord to the 12V DC connector on the back of the VCP. Then, connect the other end to the cigarette-lighter socket.



CONNECTING THE AC CORD

Attach the smaller end of the supplied AC cord to the AC 120V connector on the back of the VCP. Then, plug the other end into a standard AC outlet.



Note: You must disconnect the car-battery cord from the VCP before you can use AC power.

Caution: If you use the VCP with the vehicle's engine off, recharge the vehicle's battery after about every 4 hours of use to prevent it from running down. After you finish using the VCP, be sure you unplug the car-battery cord from the cigarette-lighter socket.

PREPARATION FOR USE

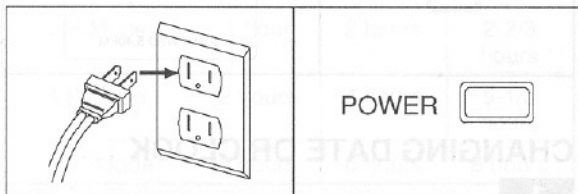
SETTING THE CLOCK FOR CORRECT TIME

- ◆ You must use the remote control unit for the following steps.

In the example below, the clock is to be set to June 3rd Wednesday, 1992 at 5:40PM.

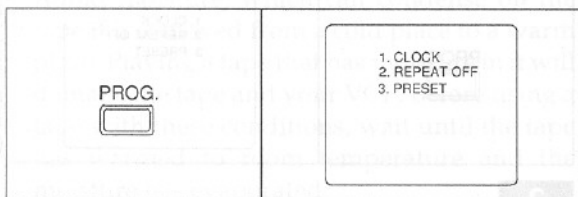
1

Connect the power cord to a standard AC outlet and press POWER button to turn on the unit.



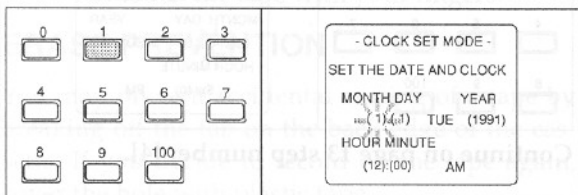
2

Press PROG. button.



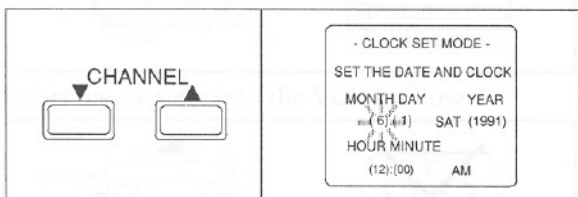
3

Select 1 (CLOCK). "CLOCK SET MODE" appears on the TV screen, and the month indicator flashes.



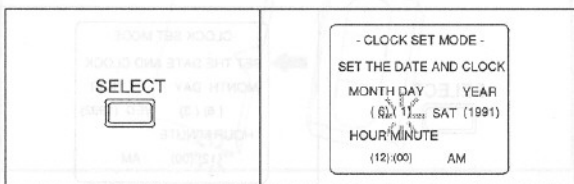
4

Press CHANNEL "▲" or "▼" button repeatedly until the desired month is displayed. (Example: 6)



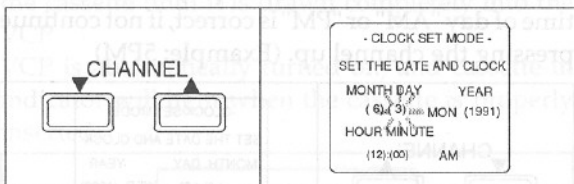
5

Press SELECT button. The day indicator flashes.



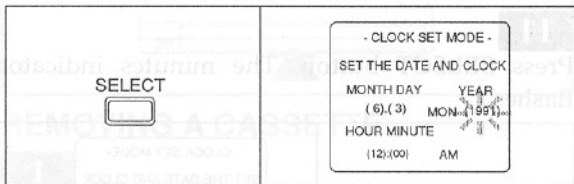
6

Press CHANNEL "▲" or "▼" button repeatedly until the desired day is displayed. (Example: 3)



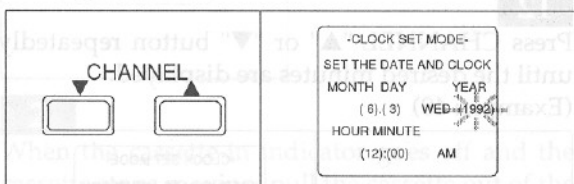
7

Press SELECT button. The year indicator flashes.



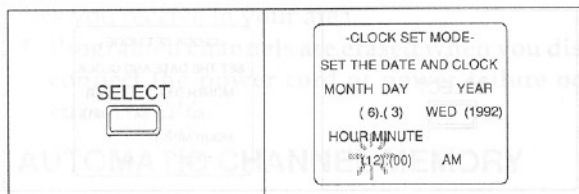
8

Press CHANNEL "▲" or "▼" button repeatedly until the desired year is displayed. (Example: 1992)

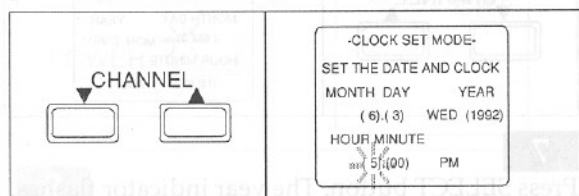


9

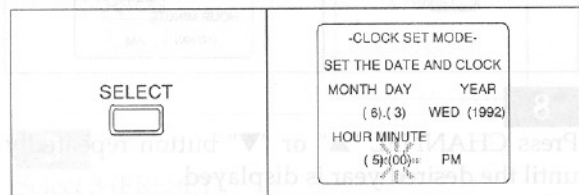
Press SELECT button. The hours indicator flashes.

**10**

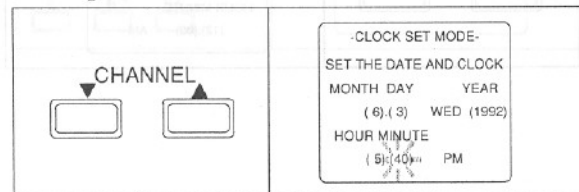
Press CHANNEL "▲" or "▼" button repeatedly until the desired hour is displayed. Make sure time of day "AM" or "PM" is correct, if not continue pressing the channel up. (Example: 5PM)

**11**

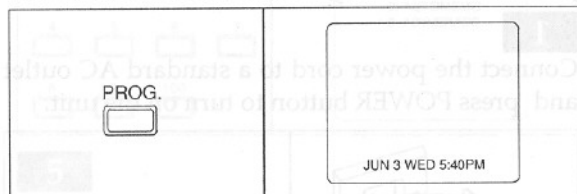
Press SELECT button. The minutes indicator flashes.

**12**

Press CHANNEL "▲" or "▼" button repeatedly until the desired minutes are displayed. (Example: 40)

**13**

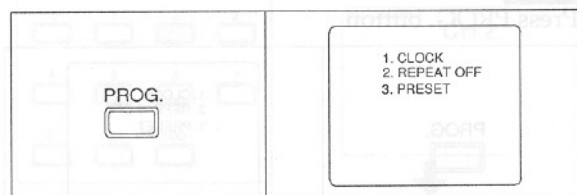
Press PROG. button, selected date and clock is displayed. Now, the clock time will start, although the seconds are not displayed, they begin counting at ": 00" when you press PROG. button.



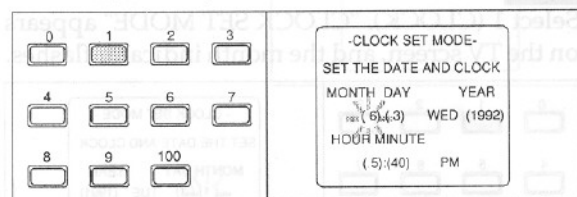
CHANGING DATE OR CLOCK

1

Press PROG. button.

**2**

Select 1 (CLOCK).



Continue on page 13 step number [4].

VIDEO CASSETTE

This VCP will operate with any cassette that has the VHS mark. For best results we recommend the use of high-quality tape.

The table below shows the playback time using T-60, T-120 or T-160 tape in the SP, LP or SLP mode.

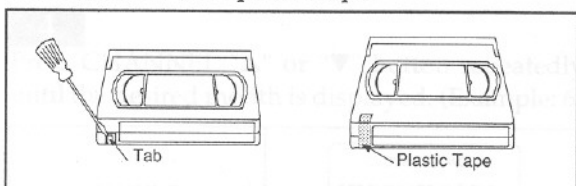
MODE	CASSETTE		
	T-60	T-120	T-160
SP Mode	1 hour	2 hours	2-2/3 hours
LP Mode	2 hours	4 hours	5-1/3 hours
SLP Mode	3 hours	6 hours	8 hours

When handling video tapes, take the following precautions

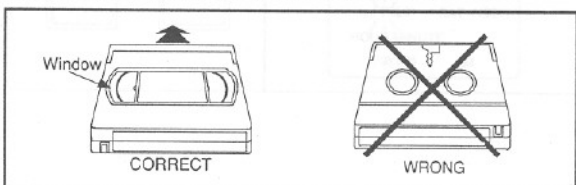
- ◆ Avoid moisture, which can condense on the tape if it is moved from a cold place to a warm place. Playing a tape that has moisture in it will damage the tape and your VCP. Before using a tape with these conditions, wait until the tape has warmed to room temperature and the moisture has evaporated.
- ◆ Avoid extreme heat, high humidity and magnetic fields.
- ◆ Do not tamper with the cassette mechanism.
- ◆ Do not touch the tape with your fingers.

ERASE PREVENTION

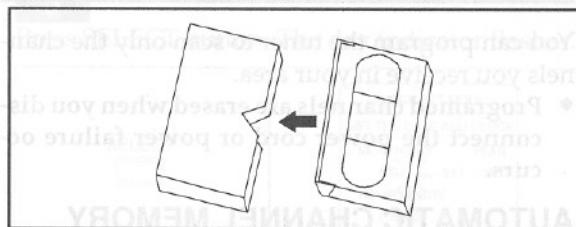
You may prevent accidental erasing of a tape by breaking off the tab on the back edge of the cassette. If you decide to record on the tape again, cover the hole with plastic tape.



Insert the cassette into the VCP as shown.



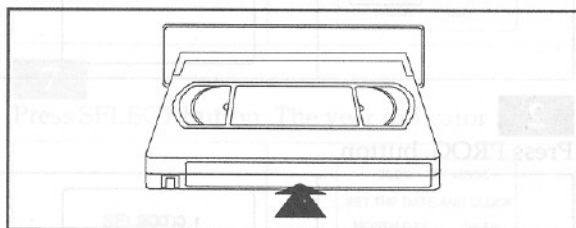
Store the cassette in its case as shown.



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 completely into the VCP.

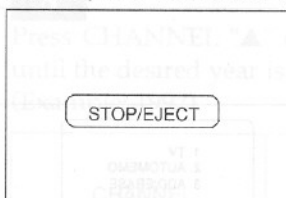
VCP is automatically turned on, and cassette-in indicator will light when the cassette is properly inserted.



REMOVING A CASSETTE

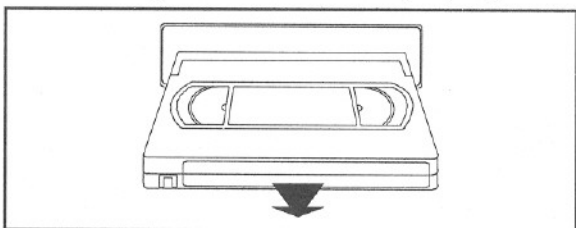
1

Press EJECT button on the main unit.



2

When the cassette-in indicator goes off and the cassette stops moving, pull the cassette out of the cassette compartment and store it properly.



PROGRAMMING THE TUNER MEMORY

You can program the tuner to scan only the channels you receive in your area.

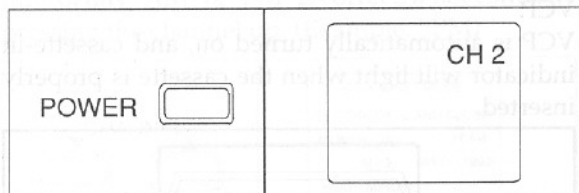
- ◆ Programed channels are erased when you disconnect the power cord or power failure occurs.

AUTOMATIC CHANNEL MEMORY

- ◆ You must use the remote control unit for the following steps.

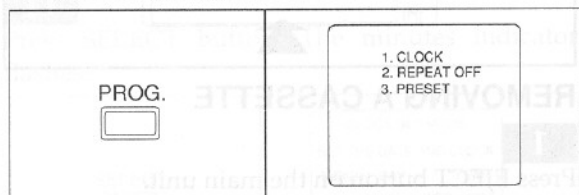
1

Press POWER button to turn on the unit.



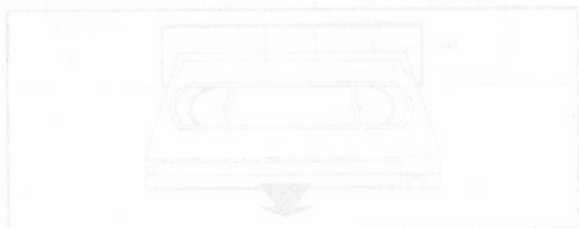
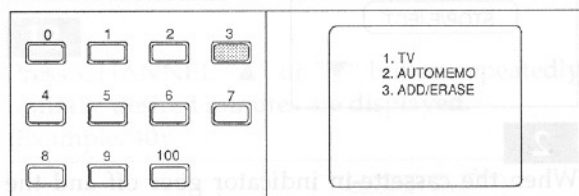
2

Press PROG. button.



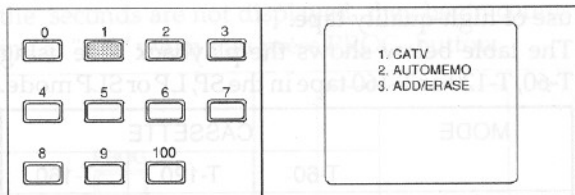
3

Select 3 (PRESET).



4

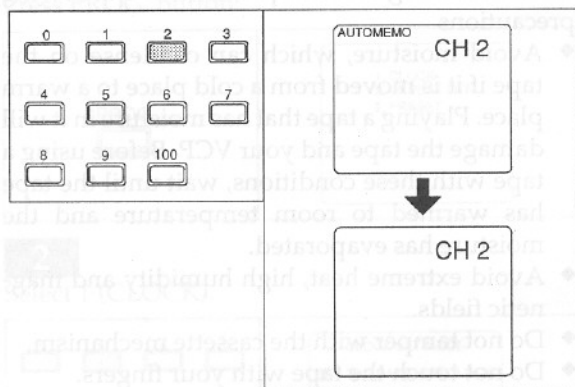
If you have CATV, select 1 (TV) and the display will change to CATV.



5

Select 2 (AUTO MEMO).

The display scans through the channels and all active channels are automatically stored. Then, the lowest memorized channel appears on the screen.



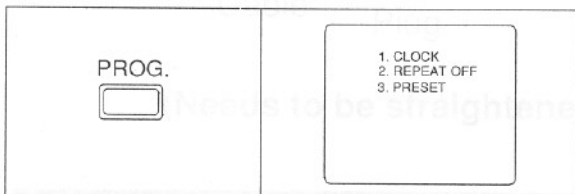
TO DELETE OR ADD PRESET CHANNEL

- ◆ To add or delete the desired channels, follow these steps.
- ◆ You must use the remote control unit for the following steps.

DELETING PRESET CHANNEL

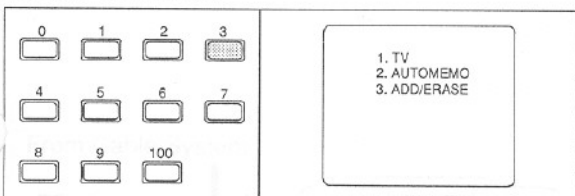
1

Press PROG. button.



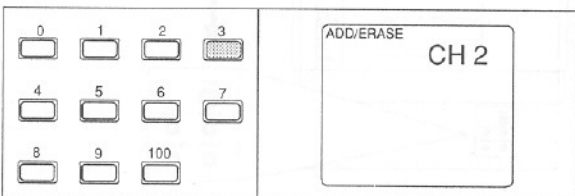
2

Select 3 (PRESET).



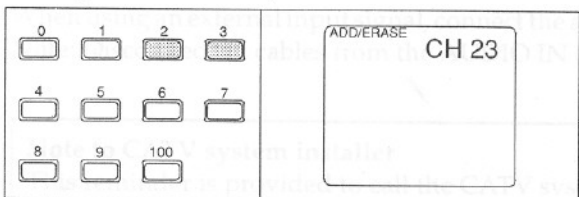
3

Select 3 (ADD/ERASE).



4

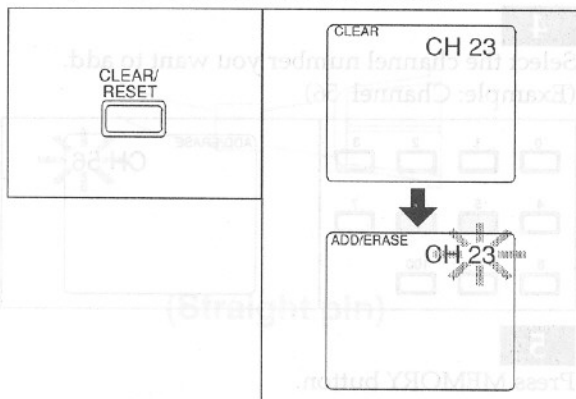
Select the channel number you want to erase. (Example: Channel 23)



5

Press CLEAR button.

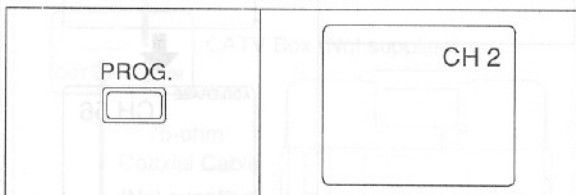
Then, CH 23 is deleted after 1 seconds.



- ◆ To delete another channel, repeat step [4] to [5].
- ◆ If you press ADD/CLEAR button again, the channel is memorized again.

6

Press PROG. button.



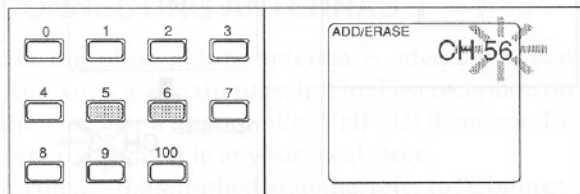
Note: To confirm that channel(s) has been deleted, press CHANNEL "▲" or "▼" button.

ADDING PRESET CHANNEL

- ◆ To add the channel, repeat step [1] to [3] on page 17.

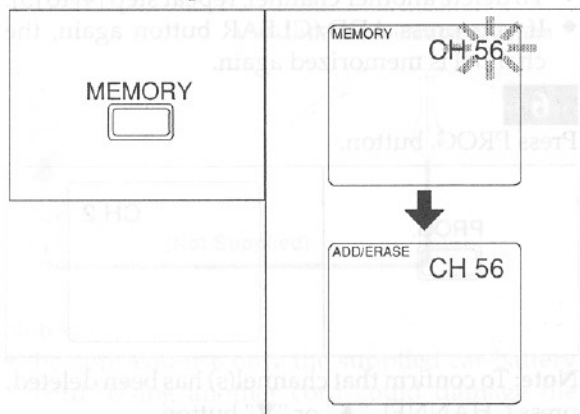
4

Select the channel number you want to add.
(Example: Channel 56)



5

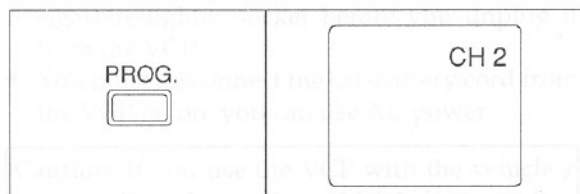
Press MEMORY button.
Then, CH 56 is preset after 1 seconds.



- ◆ To add another channel, repeat step [4] to [5].
- ◆ If you press ADD/CLEAR button on the again, the channel is memorized again.

6

Press PROG. button.



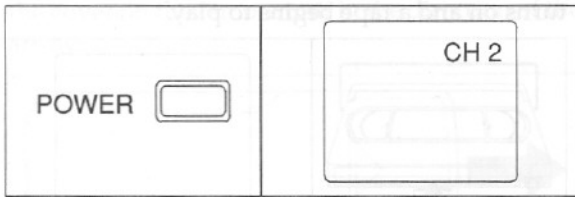
Note: To confirm that channel(s) has been added, press CHANNEL "▲" or "▼" button.

OPERATION

T.V. OPERATION

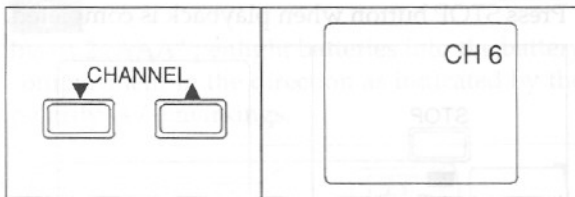
1

Press POWER button to turn on the unit.



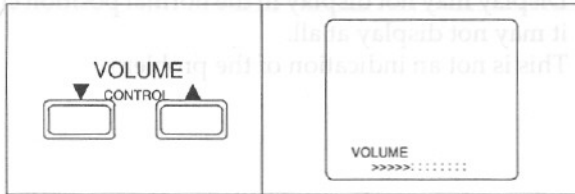
2

Select the desired channel.



3

Adjust the VOLUME to desired listening level using the VOLUME "▲" or "▼" button.

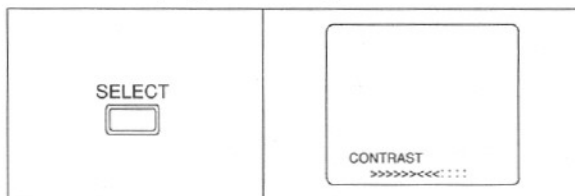


◆ You must use the remote control unit for the following steps.

4

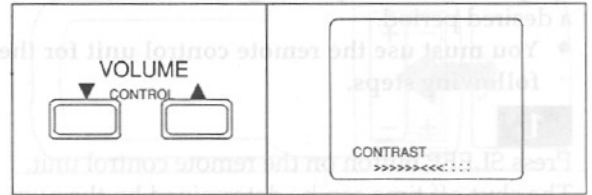
Adjust picture controls for a natural looking image.

Press SELECT button repeatedly until desired control is displayed. (Example : CONTRAST)



5

Adjust CONTRAST control to desired contrast with the CONTROL "▲" or "▼" button.



◆ Each time you press SELECT button CONTRAST, BRIGHT, COLOR, and TINT appear on the display in order.

◆ Your VCP's picture controls — CONTRAST, BRIGHT, COLOR, and TINT — are preset to the center position. This is usually best, but if you need to make any further adjustments, use the following chart as a guide.

	CONTROL ▼	CONTROL ▲
CONTRAST	to decrease contrast	to increase contrast
BRIGHT	to decrease brightness	to increase brightness
COLOR	to pale	to brilliant
TINT	to green	to purple

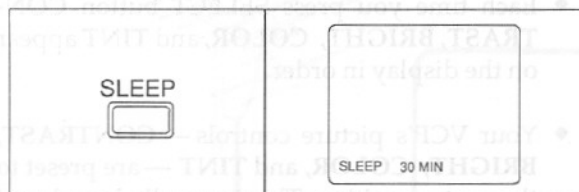
SETTING THE SLEEP TIMER

The sleep timer function enables you to shut off the power without pressing POWER button after a desired period.

- ◆ You must use the remote control unit for the following steps.

1

Press SLEEP button on the remote control unit. The shut off time can be determined by the number of times you press the button.



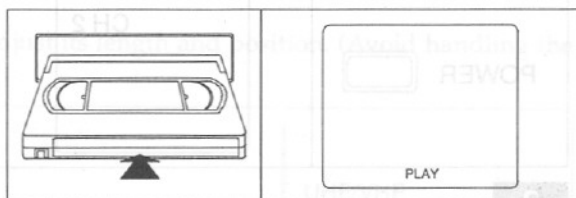
(The sleep timer will be displayed on the screen when you press the SLEEP button on remote control unit.)

CONTROL	SLEEPTIME	DISPLAY
1 push	30 minute	30 MIN
2 pushes	60 minutes	60 MIN
3 pushes	90 minutes	90 MIN
4 pushes	120 minutes	120 MIN
5 pushes	0 minutes	0 MIN

PLAYBACK

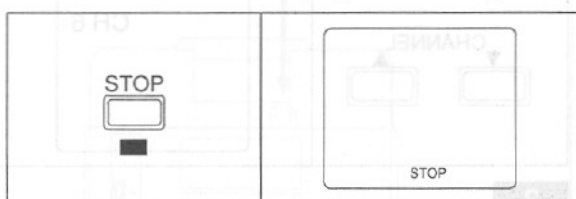
1

When a tape is inserted, the VCP automatically turns on and a tape begins to play.



2

Press STOP button when playback is completed.

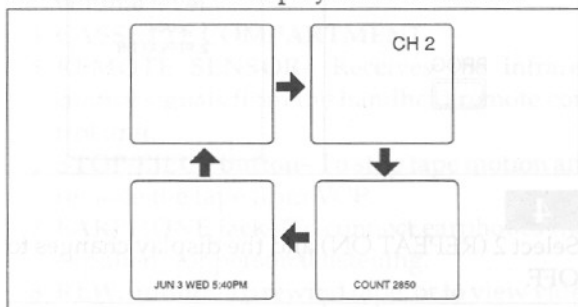


Note: When playback of a pre-recorded tape with COPYGUARD (anti copy system), The On-Screen Display may not display in the normal position or it may not display at all.

This is not an indication of the problem.

CALL BUTTON

Press the CALL button on the remote control repeatedly, channel number, counter number, and the current time are displayed on the screen.



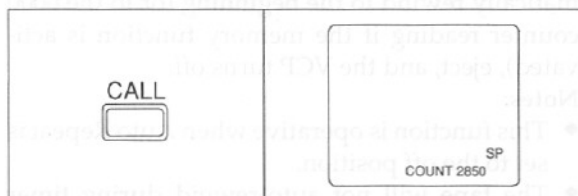
COUNTER MEMORY BUTTON

The MEMORY button can be used during REWIND or FFWD mode, to stop tape as tape approaches counter display of approx. 0000.

- ◆ You must use the remote control unit for the following steps.

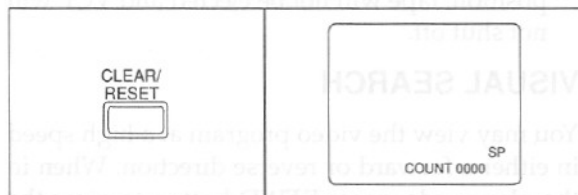
1

Before playback or recording, press CALL button repeatedly until the counter number is displayed.



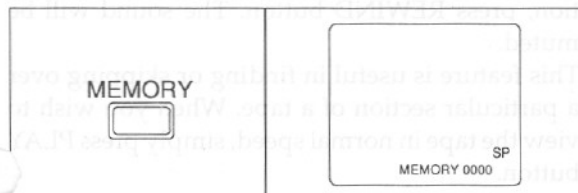
2

Press RESET button. The counter reset to 0000.



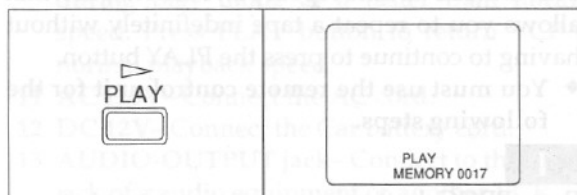
3

Press MEMORY button.



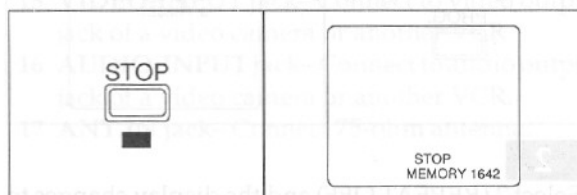
4

Press PLAY button.



5

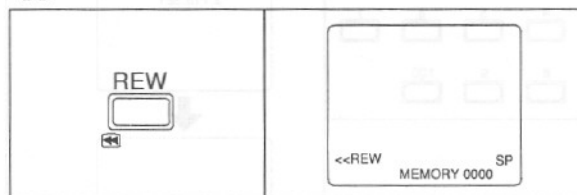
Press STOP button when playback is completed.



6

Press REW button.

The tape will stop when the counter reaches to approx. 0000.



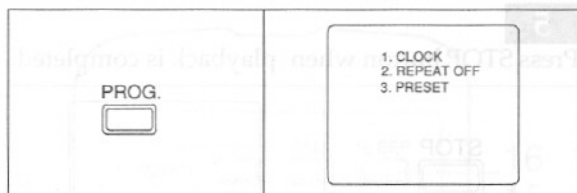
AUTO REPEAT PLAYBACK

This unit has an auto repeat playback function that allows you to repeat a tape indefinitely without having to continue to press the PLAY button.

◆ You must use the remote control unit for the following steps.

1

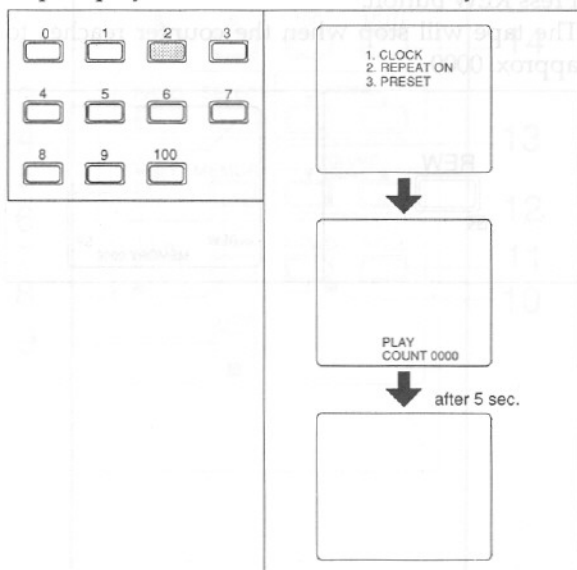
Press PROG. button.



2

Select 2 (REPEAT OFF) and the display changes to ON.

Repeat playback will start automatically.

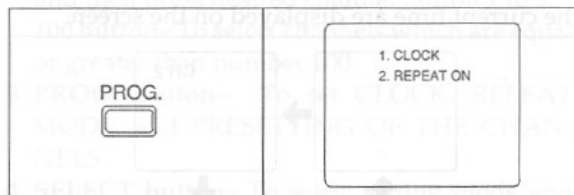


Once you select the repeat play mode, it stays in effect even after you turn off the VCR.

Note: The VCR's display does not show if repeat play is active or not.

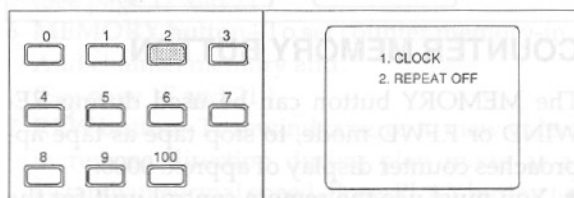
3

If you wish to set Auto Repeat to the off position, Press PROG. button.



4

Select 2 (REPEAT ON) and the display changes to OFF.



AUTO REWIND-EJECT

When the end of a tape is reached during recording, playback, or fast-forward, the tape will automatically rewind to the beginning (or to the 0000 counter reading if the memory function is activated), eject, and the VCP turns off.

Notes:

- ◆ This function is operative when Auto Repeat is set to the off position.
- ◆ The tape will not auto-rewind during timer recording or One Touch Recording.
- ◆ When tape is rewound to the preset memory position, tape will not be ejected and VCP will not shut off.

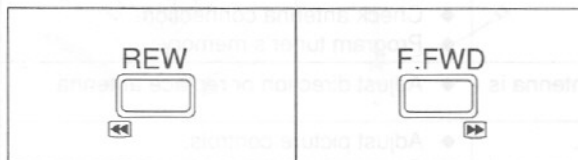
VISUAL SEARCH

You may view the video program at a high speed in either a forward or reverse direction. When in the play mode, press F.FWD button to view the tape at a fast speed in the forward direction. To view the tape at a fast speed in the reverse direction, press REWIND button. The sound will be muted.

This feature is useful in finding or skipping over a particular section of a tape. When you wish to view the tape in normal speed, simply press PLAY button.

Notes:

- ◆ The picture will not be as good as in normal playback (SP or LP) during Visual Search.
- ◆ When video searching a pre-recorded tape, it may cause noise bars (white lines) to move vertically. Also, the picture color fluctuates on and off. This is not an indication of trouble.
- ◆ You will get best results when playing back tapes that were recorded in the SLP mode.



SUPER HIGH SPEED SEARCH (LP/SLP MODE)

For Visual Search in super high speed, press either F.FWD or REWIND button while the unit is in the play mode. Release button, then depress again and hold for approximately one second. The unit will now search in super high speed. For normal playback, simply press PLAY button.

Note: Tape recorded in the LP, SLP mode will display a noise bar on the TV screen and the picture may revert to Black and White. This is normal.

STILL FRAME DURING PLAYBACK

If you press PAUSE button during playback, the picture will "freeze" on the TV screen. Only recorded tape in SLP mode shows clear picture. You may use this feature to study details of a particular screen. Press PLAY button again to continue playback.

Note: The VCP will automatically switch to the Stop mode, if it is left in the Pause mode for more than five minutes.

NOISE CANCELLING

If you use the PAUSE button to freeze the picture during playback with tape recorded in SLP mode, usually there will be video "noise bars" on the TV screen. This is normal, however, this VCP has a special feature that allows you to reposition or reduce the lines. Each time you press PAUSE button the lines will change position on the TV screen.

This enables you to see the picture in its entirety without distracting noise lines.

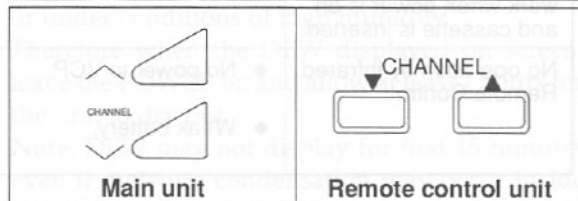
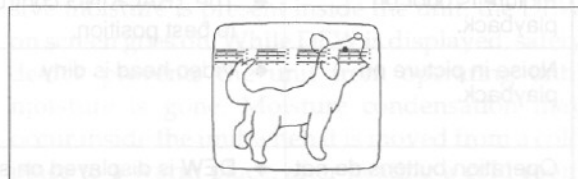
If the tape was originally recorded in SP or LP mode, the still picture will, in addition to the "noise bars", be black and white.

THIS IS NOT A FAULT OF THE MACHINE BUT MERELY A BY-PRODUCT OF THE TECHNOLOGY INVOLVED IN PRODUCING A VCP WITH LONG-PLAY MODE.

TRACKING ADJUSTMENT

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, adjust the TRACKING control by pressing CHANNEL "▲", "▲" or "▼", "▼" button until the streaks disappear.

To set to center position, press both "▲" and "▼" buttons at the same time. (This function is operative only by buttons on Main Unit.)



Note: Tapes recorded on other VCR's may require adjustment. If you encounter video "noise bar" during playback adjust tracking control to achieve the best picture.

DEGAUSS

Magnetism from nearby appliances might affect the color of the TV picture. If this happens, move the VCP away from the appliance. If the color is still not correct, be power off then be power on.

TROUBLESHOOTING GUIDE

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

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
No power.	<ul style="list-style-type: none"> ◆ Power cord is not connected. ◆ Power is turned off. 	<ul style="list-style-type: none"> ◆ Connect power cord to AC outlet. ◆ Press POWER button on.
No picture and sound.	<ul style="list-style-type: none"> ◆ TV is not plugged into an active AC outlet. ◆ Antenna is not connected. ◆ No channel in memory. 	<ul style="list-style-type: none"> ◆ Plug power cord into an active AC outlet. ◆ Check antenna connection. ◆ Program tuner's memory.
Sound OK; poor picture.	<ul style="list-style-type: none"> ◆ Direction or condition of antenna is not good. ◆ Picture control is not good. ◆ Interconnecting cable is connected to another source. 	<ul style="list-style-type: none"> ◆ Adjust direction or replace antenna. ◆ Adjust picture controls. ◆ Connect incoming antenna directly to the television.
Picture OK; poor or no sound.	<ul style="list-style-type: none"> ◆ Volume control on remote control unit or set is in minimum position. ◆ MUTE button on the remote control unit is in the ON position. 	<ul style="list-style-type: none"> ◆ Adjust volume control on remote control unit or set. ◆ Press MUTE button.
Picture is poor on playback.	<ul style="list-style-type: none"> ◆ The TRACKING control is not set to best position. 	<ul style="list-style-type: none"> ◆ Adjust TRACKING control for better picture.
Noise in picture on playback.	<ul style="list-style-type: none"> ◆ Video head is dirty. 	<ul style="list-style-type: none"> ◆ Head cleaning is necessary, consult the nearest Funai Authorized Service Center.
Operation buttons do not work when power is on and cassette is inserted.	<ul style="list-style-type: none"> ◆ DEW is displayed on screen. 	<ul style="list-style-type: none"> ◆ Wait until DEW goes off, then proceed with operation.
No operation by infrared Remote Control.	<ul style="list-style-type: none"> ◆ No power to VCP. ◆ Weak battery. 	<ul style="list-style-type: none"> ◆ Make sure the AC cord is connected to an AC outlet. ◆ Check the batteries of infrared Remote Control.

CABINET CLEANING

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

VCR HEAD CLEANING

- ◆ Picture playback may become blurred or interrupted while the TV program received is clear. This does not mean that the recorded program has been erased.
Dirt accumulated on the head after long periods of use, or usage of rental or old tape causes this problem. In this case, head cleaning requires highly technical attention, therefore consult the nearest Funai Authorized Service Center. Clean heads only when problems occur.

SERVICING

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

SPECIFICATIONS

MAINTENANCE

GENERAL SPECIFICATIONS

CRT	: 9 inch in-line gun, 90° deflection tube
Television system	: NTSC-M
Playback system	: Rotary two-head helical scan system
Tape width	: 1/2 inch
Tape speed	
SP	: 33.40mm/sec.
LP	: 16.67mm/sec.
SLP	: 11.12mm/sec.
Tuner channel	
TV VHF Low	: #2~#6
TV VHF High	: #7~#13
TV UHF	: #14~#69
CATV	
VHF	: 5A
MID band	: A5~A1, A~I
SUPER band	: J~W
HYPER band	: W+1~W+84
Terminals:	
Antenna input	VHF/UHF 75 ohms unbalanced
Video input	RCA connector
Audio input	RCA connector
Video output	RCA connector
Audio output	RCA connector

ELECTRICAL SPECIFICATIONS

Video input level	: 0.5~2.0V _{p-p}
Audio input level	: -15dBs
Video S/N ratio	: More than 46dB
Audio S/N ratio	: More than 43dB

OTHER SPECIFICATIONS

Power requirement	: AC 120V/60Hz, DC 12V
Power consumption	: 70W/AC, 50W/DC
Dimensions	: 314(W) x 333(D) x 332(H) mm
Weight	: 10 kg 22 lbs
Accessories	: Remote Control 2 "AAA" Batteries Rod Antenna Car Battery Cord AC Cord Owner's Manual

- ◆ Design and specifications are subject to change without notice.

The serial number of this product may be found on the back of the unit. 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 Purchased from	
Dealer Address	
Dealer Phone No.	
Model No.	SC-91B
Serial No.	

CABLE CHANNEL DESIGNATIONS

This model is capable of receiving 125 cable channels. The channels are displayed as 1 ~ 125. Cable companies often designate the other 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
VCP 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
VCP 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
VCP 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
VCP 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
VCP 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
VCP 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
VCP 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
VCP 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										
VCP Display	121	122	123	124	125										

FUNAI CORPORATION LIMITED WARRANTY

FUNAI CORP. will repair this 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 FUNAI/SYMPHONIC product are altered, replaced, defaced or missing. This FUNAI CORPORATION Limited warranty does not apply to any FUNAI/SYMPHONIC product not purchased and used in the United States.

This warranty only covers failures due to defects in material or workmanship which occurs 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 FACTORY SERVICE CENTER, PLEASE CONTACT THE FUNAI SERVICE DEPARTMENT TO RECEIVE M.R.A. (MERCHANDISE RETURN AUTHORIZATION) NUMBER PRIOR TO SHIPPING. ANY POSTAGE, INSURANCE AND SHIPPING COST, INCURRED IN PRESENTING OR SENDING YOUR FUNAI/SYMPHONIC 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 FUNAI Authorized Service Center or general service procedure, please call or write to the following:

FUNAI CORPORATION
Corporate Headquarters & Factory Service Center
Address :100 North Street Teterboro, NJ 07608
Tel :201-288-2666
(Eastern Time 9:00 AM - 4:30 PM)