



# FISHER

VHS  
Recorder

VHS  
PAL

# Model FVHR-520



## Instruction Manual

This Video Cassette Recorder was developed by FISHER to give you many years of enjoyment. Please read the following instructions carefully. They have been prepared to assist you during the initial set-up procedure, and to assure you of optimum performance at all times.

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## FEATURES

- Records up to 4 hours.
- Automatic playback switching.
- Seven-day, one-program timer with every day function.
- VHF/UHF electronic tuner with 8-preset channels.
- Simultaneous digital display of start and end time.
- Special 5-mode playback.
- Soft touch controls.
- 11 function remote control. (supplied)
- Auto rewind system.
- Dew protection system with dew indicator.
- Electronic tape counter with memory.

### **MAINS SUPPLY (AC240V, 50Hz only)**

**MAINS POWER SWITCH:** The mains switch is located on the rear connector panel. Setting the switch to OFF removes all applied power from the set including the timer clock. Switching on or off the Video Cassette Recorder section is performed with the front panel FUNCTION switch.

## PRECAUTIONS AND TIPS ON OPERATIONAL SAFETY

### **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 a dusty or humid place.
- Avoid a place 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 VCR near strong magnetic fields.
- Do not move the unit from a cold place to a hot place or vice versa.

### **AVOIDING THE HAZARDS OF ELECTRICAL SHOCK AND FIRE**

- Do not handle power cord with wet hands.
- Do not pull on the power cord when disconnecting it from an 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 FISHER authorized video 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.

### **MOISTURE CONDENSATION**

- If you pour a cold liquid into a glass, water vapor in the air will condense on the surface of the glass. This is moisture condensation. Moisture condensation on the head drum, one of the most crucial parts of the VCR, will cause damage to the tape. The VCR has a humidity detector and eliminator units built in. Whenever the VCR is exposed to extreme cold and heat at one time, some condensation will occur. When moisture is present, STOP indicator light will flash and the unit will not operate. Under these circumstances set the FUNCTION switch to OFF and allow at least 2 hours for the VCR to dry out. When STOP indicator light stops blinking, unit can be operated.

### **CLEANING**

- Wipe the front panel and other exterior surfaces of the VCR with a clean, soft, dry cloth. Stains should be removed 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.

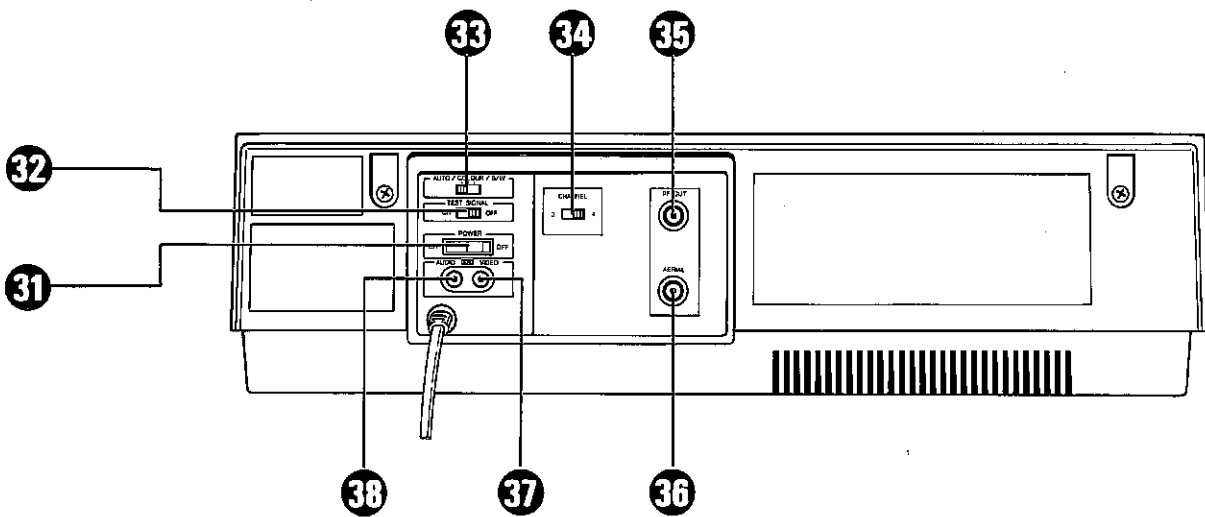
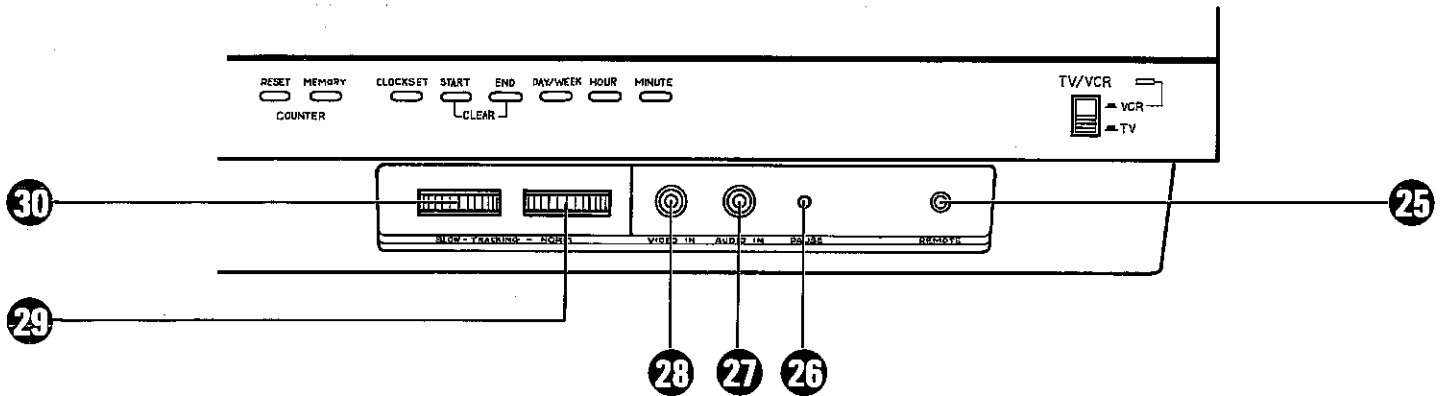
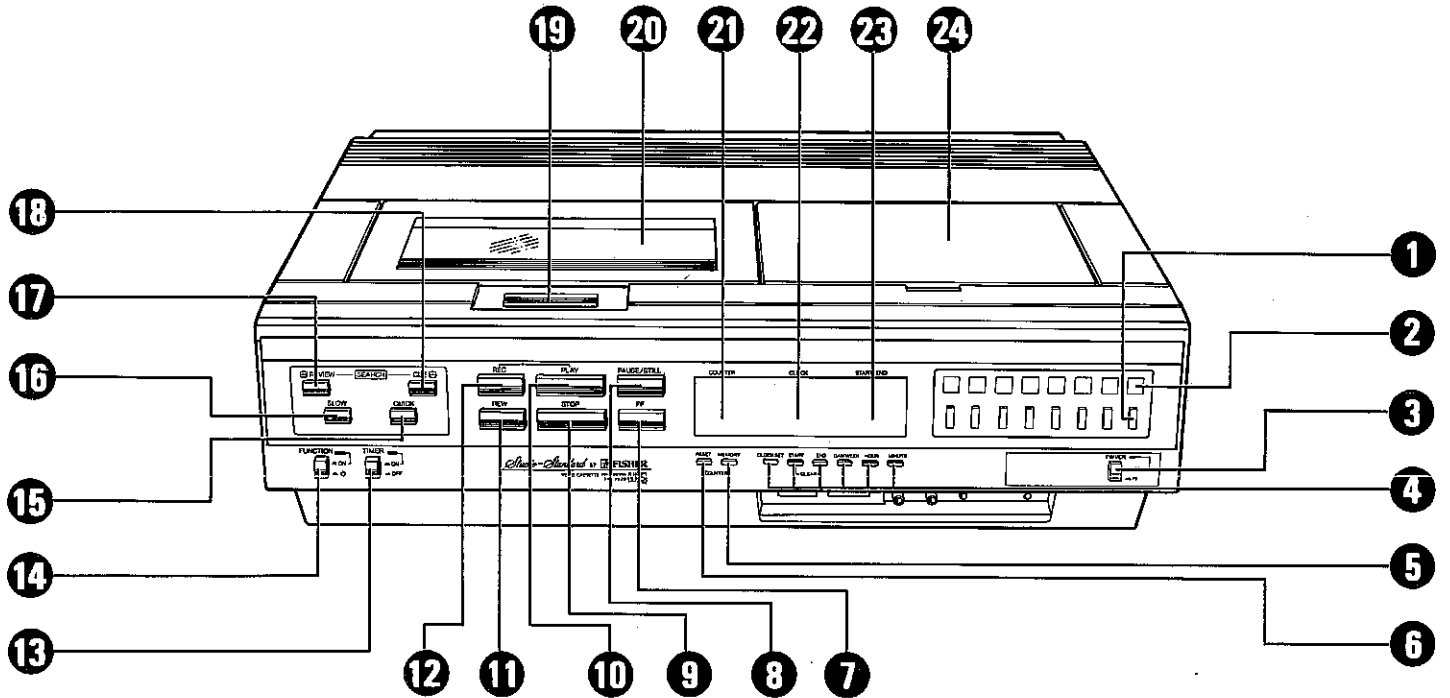
### **SERVICING**

- Should your VCR become inoperative, do not try to correct the problem yourself. There are no user-serviceable parts inside. Switch off power, unplug the power cord and take the unit to a FISHER authorized video service center for servicing.

### **WARNING:**

UNAUTHORIZED RECORDING OR USE OF BROADCAST TELEVISION PROGRAMMING, VIDEO TAPE, FILM OR OTHER COPYRIGHTED MATERIAL MAY VIOLATE APPLICABLE COPYRIGHT LAWS. FISHER CORPORATION ASSUMES NO RESPONSIBILITY FOR THE UNAUTHORIZED DUPLICATION, USE OR OTHER ACTS WHICH INFRINGE UPON THE RIGHTS OF COPYRIGHT OWNERS.

# LOCATION OF CONTROLS & SWITCHES



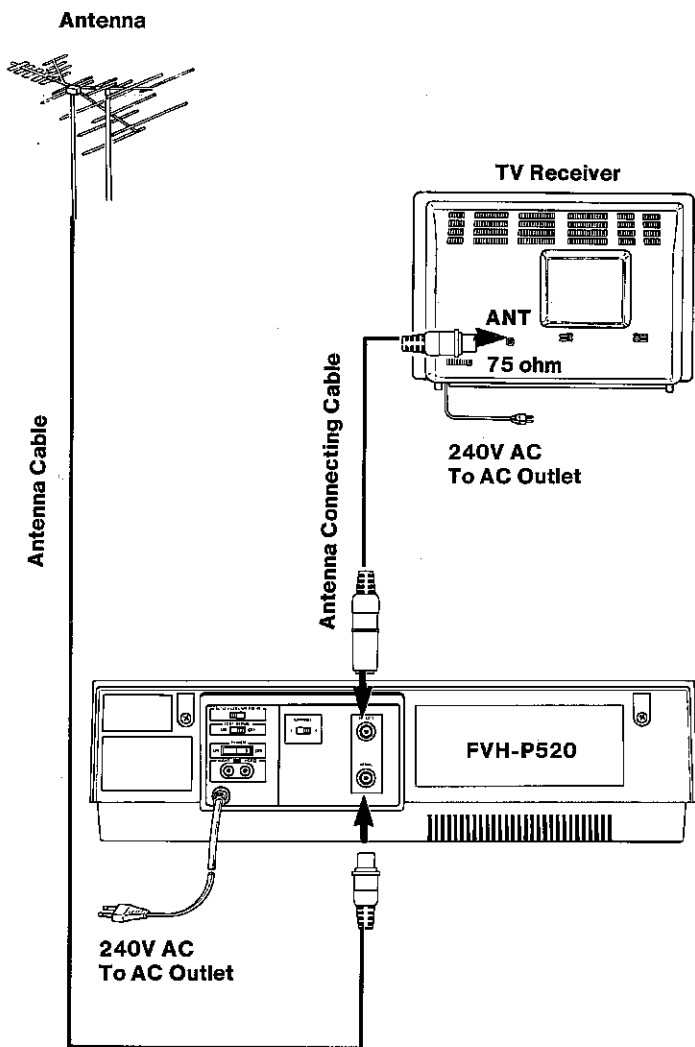
## CONTROLS & SWITCHES AND THEIR FUNCTIONS

- 1 CHANNEL SELECT BUTTONS**  
For selecting the channels you wish to view or record.
- 2 CHANNEL INDICATOR**  
Will light when a channel select button is pressed.
- 3 TV/VCR SELECTOR SWITCH**  
Press to VCR position for video recording or playback. Release to TV position for watching TV.
- 4 TIMER CONTROLS**  
Used to set the clock and timer.
- 5 COUNTER MEMORY BUTTON**  
To review tape immediately after recording or to return to the same point several times.
- 6 COUNTER RESET BUTTON**  
For resetting tape counter to "0000".
- 7 FAST FORWARD BUTTON**  
For fast access to program material.
- 8 PAUSE/STILL BUTTON**  
Press to pause during recording. Press to view still frame during playback. Press a second time to release.
- 9 STOP BUTTON**  
Press to stop tape.  
**NOTE:**  
When the unit is in the record mode, the STOP button must be pressed before any other operation except PAUSE. The STOP button must also be pressed before EJECT.
- 10 PLAY BUTTON**  
Press to start play.
- 11 REWIND BUTTON**  
Press to start rewind.
- 12 RECORD BUTTON**  
Press RECORD button and while holding it in, press PLAY button to record.
- 13 TIMER SWITCH**  
Press after programming Digital Clock.
- 14 FUNCTION SWITCH**  
Turns system power on and off.
- 15 QUICK BUTTON**  
Press this button during playback. Playback picture at 2 times the regular viewing speed.
- 16 SLOW BUTTON**  
Press this button during playback. Pictures will then be viewed at half speed.
- 17 REVIEW BUTTON**  
Fast review of recorded material and picture search in the reverse direction can be accomplished. The review function increases the reverse speed to 5 times the regular viewing speed.
- 18 CUE BUTTON**  
Fast picture search with the sound muted is provided. The cue function increases playback speed to 5 times the regular viewing speed.
- 19 EJECT BUTTON**  
Press to insert or remove cassette.  
**NOTE:** The STOP button must be pressed before EJECT.
- 20 CASSETTE HOLDER**
- 21 TAPE COUNTER DISPLAY**
- 22 CLOCK DISPLAY**
- 23 PROGRAM TIMER DISPLAY**
- 24 PRE-TUNING ACCESS DOOR**  
Open this door to set the channels.
- 25 REMOTE CONTROL JACK**  
To connect Remote Control unit.
- 26 CAMERA PAUSE JACK**  
To connect Camera Pause cable.
- 27 AUDIO IN JACK**  
Receives audio signals from a camera, external sound equipment, or from another VCR.
- 28 VIDEO IN JACK**  
Receives video signal from a video camera or another VCR.
- 29 NORMAL TRACKING CONTROL KNOB**  
For minimizing noise in playback.
- 30 SLOW TRACKING CONTROL KNOB**  
For minimizing noise during half speed playback (Slow).
- 31 MAINS POWER SWITCH**  
Turns mains power ON or OFF.
- 32 TEST SIGNAL ON/OFF SWITCH**  
Set this switch ON and check that the video channel of your TV set is correct. Set to the OFF position after setting the video channel correctly.
- 33 VIDEO MODE SWITCH**  
**AUTO:** Circuits are automatically switched to colour or black/white mode. This position is sufficient for most purposes.  
**COLOUR:** When recording PAL signal in the area very far from broadcasting station, recorded picture may lose colour. In that case set to this position in recording and set to "AUTO" position in playback.  
**B/W:** Set to this position when input or playback signal is monochrome.
- 34 RF CONVERTER SWITCH**  
Enables you to choose between channels 3 or 4 on which your VCR will transmit its signal to your TV.
- 35 RF OUT CONNECTOR**  
Connect to TV antenna (aerial) input.
- 36 AERIAL INPUT CONNECTOR**  
Connect external antenna.
- 37 VIDEO OUT JACK**  
For connecting to a monitor TV.
- 38 AUDIO OUT JACK**  
For making connection to stereo equipment etc.

## ANTENNA CONNECTIONS

Connection of the FISHER FVH-P520 video cassette recorder is simple and easy.

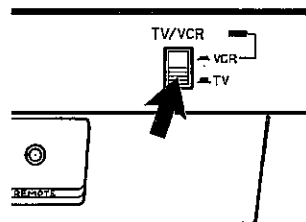
1. Remove the connector of coaxial antenna cable from your television receiver. Plug this connector into the receptacle marked "AERIAL" on the video cassette recorder.
2. Take the accessory antenna connecting cable supplied with the unit and plug the small end into the connector marked RF OUT.
3. Attach the free end of the antenna connecting cable to your television receiver.
4. According to current standards, all new television receivers are equipped with antenna connectors conforming to the international standards of IEC 169-2 and DIN 45325. If your television receiver does not conform to these standards, consult your FISHER dealer for required modifications or necessary adaptors.
5. To place your video cassette recorder in operation, plug the power cable into an outlet supplying AC 240V, 50Hz.



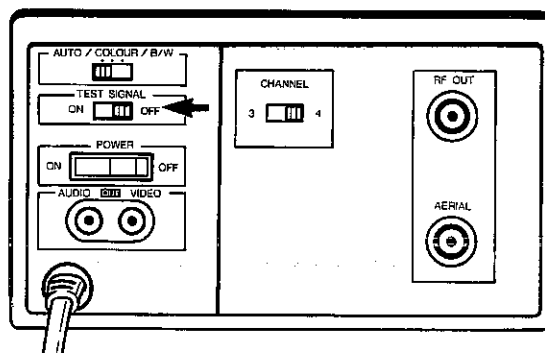
## DESCRIPTION OF RF CONVERTER FUNCTION

During playback of signals recorded on the video tape, and when the TV/VCR selector is in the VCR position, the RF converter changes the video and audio signals to the same type of signals used for TV broadcasts. The RF converter output selector can be set to channel 3 or 4. Select the channel that is not used for TV broadcast in your area.

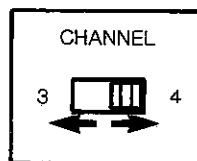
1. Set the FUNCTION switch to ON. Now the FUNCTION indicator lights up.
2. Set the TV/VCR switch to VCR.



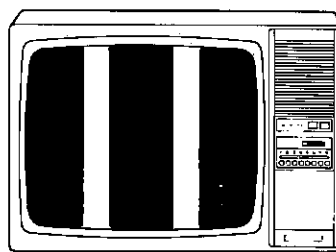
3. Set TEST SIGNAL ON/OFF switch to "ON".



4. Set RF converter switch to channel 3 or 4 using a small screwdriver.



5. Select your TV to channel 3 or 4. When you receive the B/W test pattern in your TV correctly, the set is properly tuned.



6. Set TEST SIGNAL ON/OFF switch to "OFF" after setting video channel correctly.

### NOTE:

Remember this channel number. This is your video channel. To view video cassettes, always select this channel on the TV receiver.

## PRE-TUNING OF BUILT-IN TELEVISION TUNER

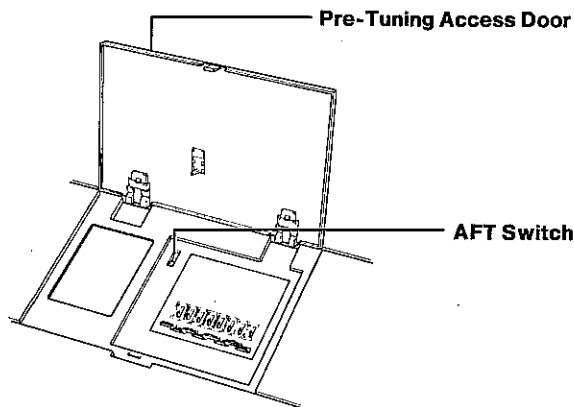
This VCR incorporates a complete television tuner with the required tuning controls. Once you have pre-tuned to preferred stations, you can select one of them by merely pressing one of Channel Select buttons.

### Before starting adjustment

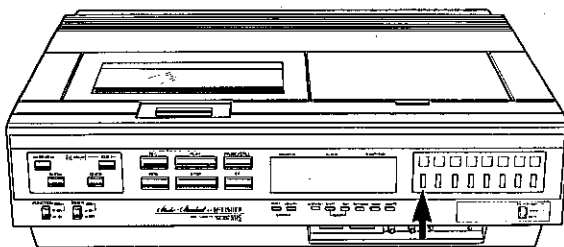
- Connect VCR, TV and Antenna (Aerial).
- Turn on mains power switch of VCR.
- Turn on function switches on both VCR and TV.
- Set timer switch on VCR to OFF position (button out). Timer light should be out.
- Set TV/VCR selector to the VCR. Red light next to switch should light up.
- Set VHF channel selector on TV to the same channel number as RF converter.

### ADJUSTMENT

1. Open Pre-Tuning Access Door.

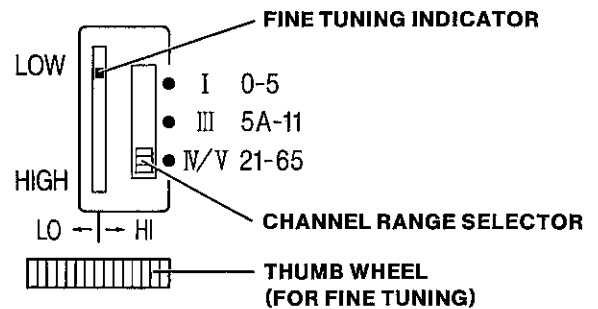


2. Press the channel selector button of the channel to be changed. (Check that the indicator corresponding with the channel select button being pressed lights up.)



3. Set the channel range selector switch to the channel range necessary to tune to the channel selected with the channel selector button:
  - Channel 0 - 5 : Frequency band I (VHF)
  - Channel 5A - 11 : Frequency band III (VHF)
  - Channel 21 - 65 : Frequency band IV/V (UHF)

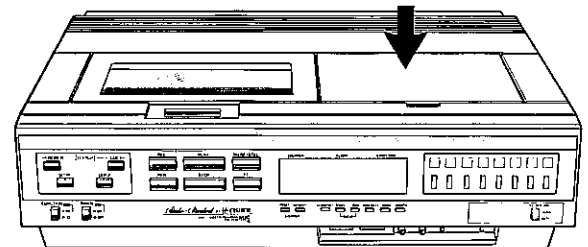
4. Rotate thumb wheel corresponding with channel number of channel select button that was pressed in step 2. While rotating the thumb wheel, observe the tuning indicator at the same time. Fine tune for best picture and sound on your TV. Repeat the same procedure for other channels you wish to change.



5. Close Pre-Tuning access door. TV set and VCR are tuned correctly when a clear picture and sound are received after the above procedure has been performed.

### NOTE:

Automatic fine tuning circuit (AFT) is automatically connected when door is closed.



### NOTES:

- If the picture of a particular TV channel is not clearly received, repeat above steps 1 through 5 for that particular channel.
- If the picture of all TV channels cannot be received clearly, TV set is not tuned properly. Adjust the TV set using the following procedure.
  - a) If the TV set has an AFC switch, set the AFC switch to OFF.
  - b) Set the TV channel selector to the same channel as RF converter.
  - c) Adjust fine tuning to obtain a clear picture and sound.
  - d) Set AFC switch to ON position.

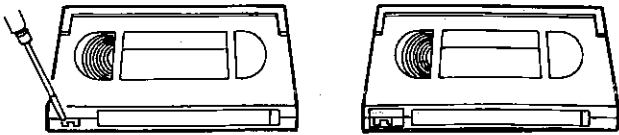
## DESCRIPTION OF VIDEO CASSETTE

The VCR employs VHS type cassettes only. E-240 for 240 minutes, E-180 for 180 minutes, E-120 for 120 minutes, E-60 for 60 minutes and E-30 for 30 minutes of recording.

This machine will also operate with any video cassette tape which has the VHS mark.

When handling video cassettes, observe the following:

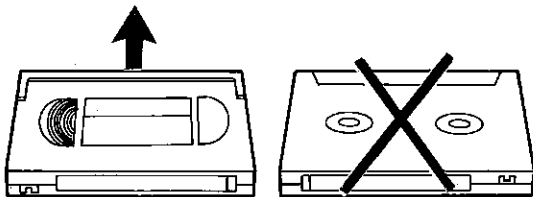
- Moisture may condense on the tape if the cassette is brought into a warm room from the cold outdoors. The tape may be damaged when used in a moistened condition, so before using it, wait until the cassette has warmed up to room temperature and moisture condensation has been eliminated.
- Do not expose video cassettes to extreme heat, to high humidity or to strong magnetic fields.
- Do not tamper with cassette mechanism.
- Do not touch tape with fingers.
- **Safety tab.**



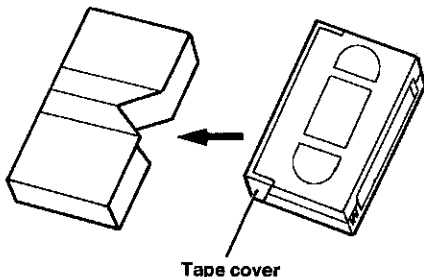
To prevent accidental erasure, break the tab.

To record again cover the hole with vinyl tape.

- **Insert cassette into VCR as illustrated below.**



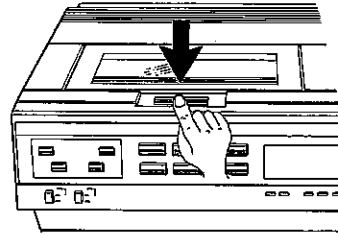
- **Restore cassette to cassette case as shown.**



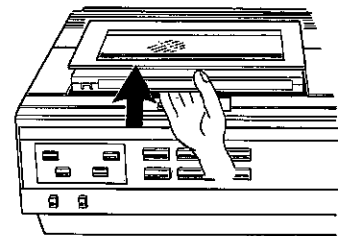
## INSERTION AND REMOVAL OF CASSETTES

### Insertion

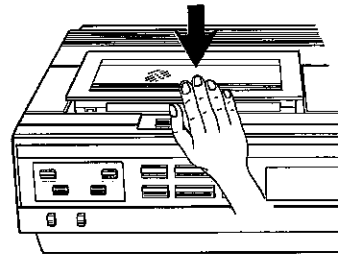
1. Press EJECT button.



2. Insert the cassette.



3. Press down the center of the cassette holder.



### Removal

1. Press EJECT button.
2. Remove the cassette.
3. Press down the center of the cassette holder.

**Note:** Be sure to press down on the CENTER of the cassette holder so that both sides will lock.

## VIEWING TV ONLY

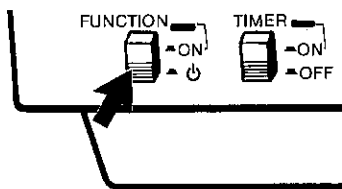
You do not need to disconnect your VCR from your TV set in order to watch TV.

1. Turn off VCR function switch.
2. Turn on TV and set the TV channel selector to the program you wish to watch.

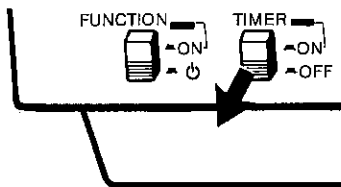


## VIEWING AND RECORDING THE SAME TELEVISION PROGRAM

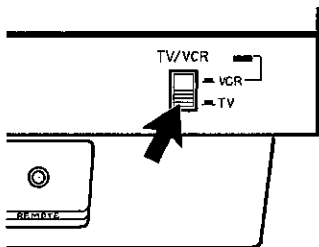
1. Press VCR function switch to ON position; red light next to function switch will light up.



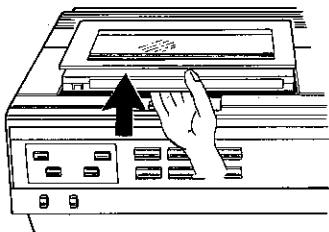
2. Release timer switch; light next to timer switch should be out.



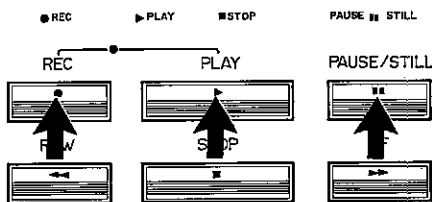
3. Turn on TV and set the channel of the TV to the same channel number as RF converter.
4. Set the TV/VCR selector to the "VCR" position. Red light next to selector will light up.



5. Insert cassette.

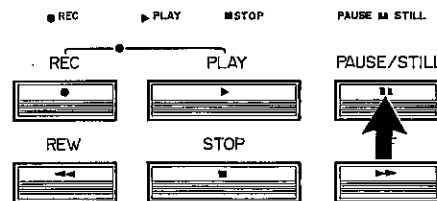


6. Select channel to be recorded.
7. Press PAUSE/STILL button first and then press the RECORD button and while holding it in, press PLAY button. Your VCR is now ready to record.

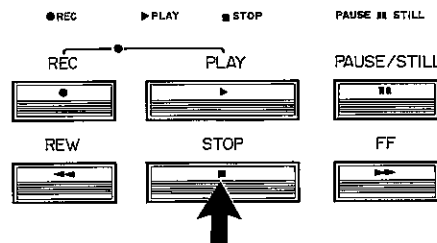


8. Press PAUSE/STILL button again to start recording. If you wish to stop the recording temporarily without resetting the RECORD and PLAY buttons, press PAUSE/STILL button. Press it again to resume operation.

**IMPORTANT NOTE:** Avoid operating VCR in the PAUSE mode for more than five minutes to prevent damage to tape.



9. Press STOP button when you have finished recording. When the end of the tape is reached during recording, the tape will rewind automatically and stop at the beginning of the tape.



### NOTE:

The VCR will not shut off even if the tape is stopped at the beginning of tape, and the tape will not automatically rewind at the tape end during TIMER RECORDING.

**NOTE:** If you want to change the TV channel selected on the VCR during recording, proceed as follows:

- 1) Press PAUSE/STILL button during recording.
- 2) Push VCR channel button to be changed.
- 3) Press PAUSE/STILL button again to release. Now, new channel program will be recorded.

### MEMORY BUTTON

The MEMORY button can be used when rewinding the tape to automatically stop the VCR when the tape counter reaches the pre-set "0000" reading.

This can be used, for example, to automatically return the tape to a pre-selected position immediately after recording, or to repeatedly play back a portion of the tape.

1. Before playback or recording, press the COUNTER RESET button. The tape counter will indicate "0000".
2. Press the MEMORY button. "MEMORY" indicator will light up.
3. Begin playback or recording.
4. Press STOP button when the recording or playback is finished.
5. Press REWIND button: The tape will automatically stop at the pre-selected "0000" position.

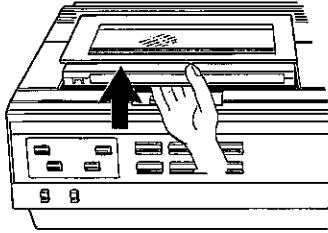
### Note:

In practice the tape stops right after passing the pre-set position, and the counter may indicate "9999".

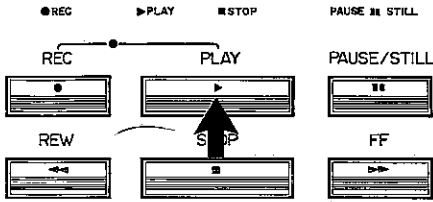
# PLAYBACK

**NOTE:** The TV/VCR selector switches to "VCR" position automatically during playback.

1. Press VCR function switch to ON position and then release the timer switch.
2. Turn on TV and set the channel of the TV to the same channel number as RF converter.
3. Insert the cassette.



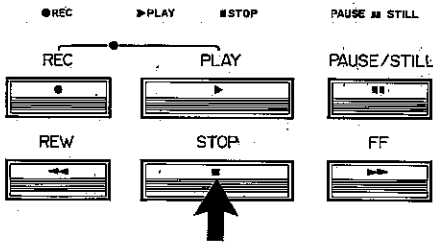
4. Press PLAY button.



5. Press STOP button to stop playback.

**Note:**

The tape will stop and automatically rewind when the end of the tape is reached.

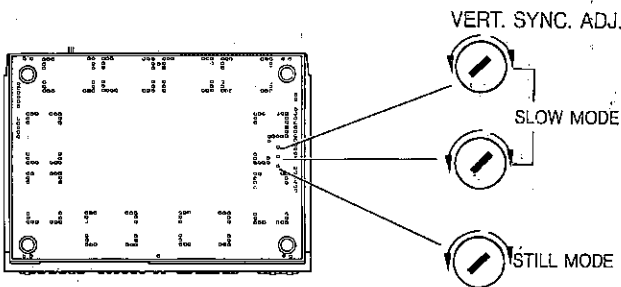


## STILL MODE DURING PLAYBACK

- Still picture can be viewed when the PAUSE/STILL button is pressed during playback.

**Note:**

When there is any vertical shake of the picture on the TV screen in the still picture mode, use a small-sized screwdriver to rotate the "VERT.SYNC ADJ" control on the bottom panel to minimize the shakes.



## QUICK & SLOW MODES

### QUICK BUTTON

Press this button during playback. Playback picture at 2 times the regular viewing speed will be obtained.

### SLOW BUTTON

Tapes are played back at one half the ordinary speed when the SLOW button is pressed during playback. To release, press "STOP", "PLAY" or "PAUSE/STILL" button. The VCR will change to the mode corresponding to the button pressed.

**Note:**

When there is any vertical shake of the picture on the TV screen in the slow playback mode. First adjust "VERT. SYNC. ADJ" controls same adjustment as for still picture mode and then switch to the slow playback mode, turn the 2 controls marked "SLOW MODE" to left and right for adjustment.

## CUE & REVIEW MODES

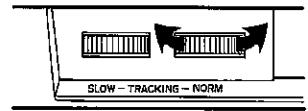
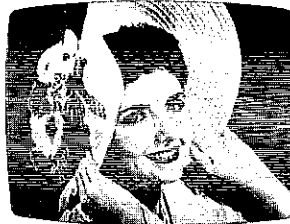
If you wish to view the picture at high speed in both forward and reverse directions during playback, press either CUE or REVIEW button. Pictures can be viewed at high speed in either forward or reverse direction. To release, press PLAY or STOP button.

**Note:**

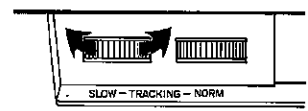
- The VCR will automatically change to play mode approximately 5 minutes after the REVIEW button is pressed.
- The playback picture will have some amount of noise in the CUE and REVIEW modes, which is normal.

## NORMAL TRACKING CONTROL & SLOW TRACKING CONTROL KNOBS

- **NORMAL TRACKING CONTROL:** Adjust this control knob for minimum noise in picture and best picture during playback operation. The normal position is in the center (click) position.



- **SLOW TRACKING CONTROL:** Adjust this control knob for minimum noise in picture and best picture during the slow (1/2 speed) playback operation. The normal position is in the center (click) position.



## RECORDING ONE PROGRAM WHILE VIEWING ANOTHER

You can record one program while viewing another. The recorded program can be played later at your convenience.

### To begin recording

1. Press VCR function switch to ON position: red light next to function switch will light up.
2. Release timer push button: light next to timer button should be out.
3. Turn on TV and set the channel of the TV to the same channel number as RF converter.
4. Insert the cassette.
5. Set the TV/VCR selector to "VCR" position.

6. Select channel on your VCR for program you wish to record.
7. Press RECORD button and while holding it in, press PLAY button.

**After recording begins, you can view a TV program different from the one you are recording.**

8. Press TV/VCR selector to "TV". (Red light next to VCR/TV selector will go out)
9. Set the TV channel selector to the program you wish to view.
10. If you want to stop recording, press STOP button.

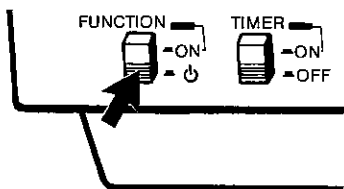
**Note:**

The tape will stop and automatically rewind when the end of the tape is reached.

## TIMER RECORDING (UNATTENDED RECORDING)

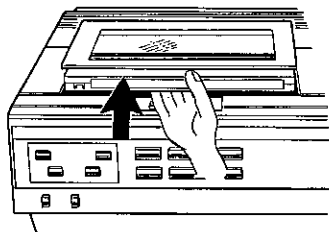
Once you have set the Timer built into the VCR for unattended recording, it will switch your VCR on and off at the time you set. However, if the tape runs out, the unit will stop automatically, but will not shut itself off until the preset end time is reached.

1. Press VCR function switch to ON position.

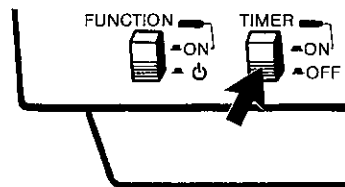


2. Set the program timer. "REAL TIME (TIME OF DAY)", "START TIME", "END TIME" etc. Refer to the "SETTING THE CLOCK AND THE PROGRAM TIMER" on the following pages.

3. Insert the cassette.



4. Press Timer Switch of VCR to ON.



**Notes:**

- Safety tab on tape cassette must be in place.
- It is not necessary to press PLAY and RECORD buttons.
- Recording begins automatically at starting time.
- TV does not have to be on for Timer Recording.
- Unit will stop automatically when tape runs out.
- When Timer Switch is on, your VCR cannot be operated manually.

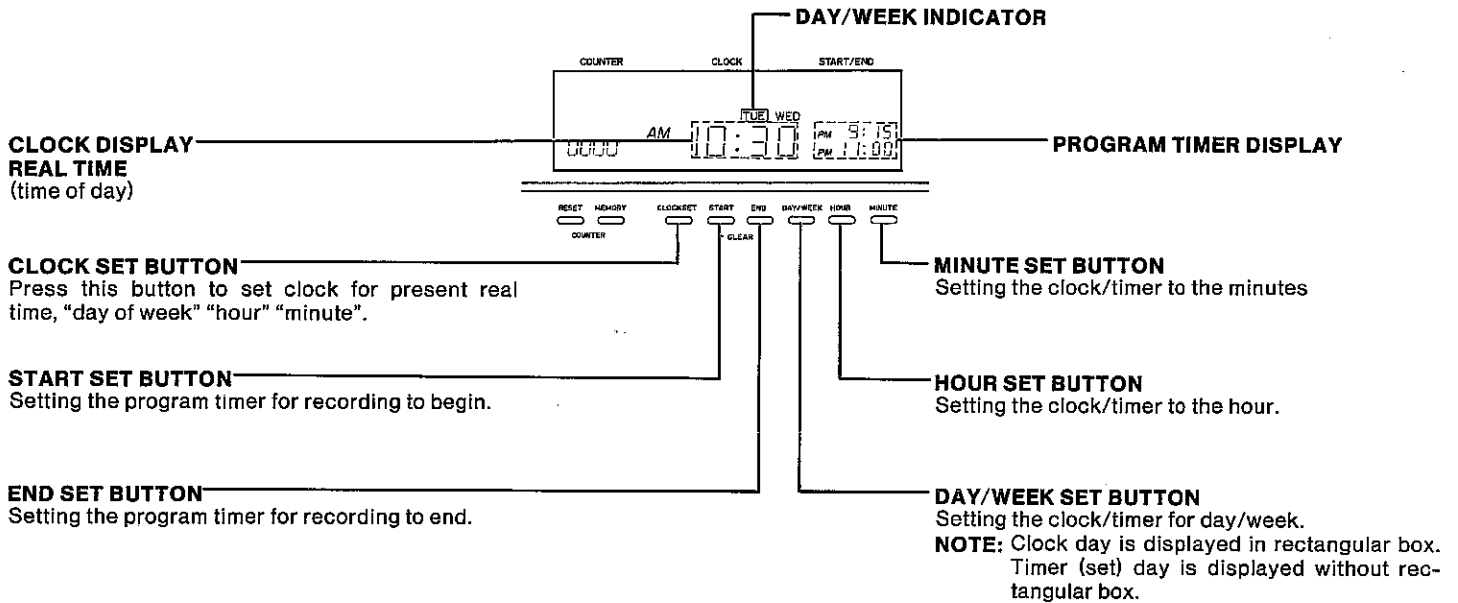
### To monitor program to be recorded.

1. Release timer push button: light next to timer button should be out.
2. Turn on TV and set the channel of the TV to the same channel number as RF converter.
3. Set the TV/VCR selector to "VCR" position.
4. After checking the program, turn off TV and set the Timer Switch on the VCR to ON. Red light next to timer switch will light up.

# SETTING THE CLOCK AND THE PROGRAM TIMER

## DESCRIPTION OF CLOCK/TIMER

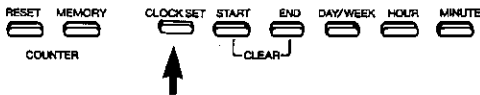
The timer indication of the clock and timer is based on a 12-hour AM/PM system.



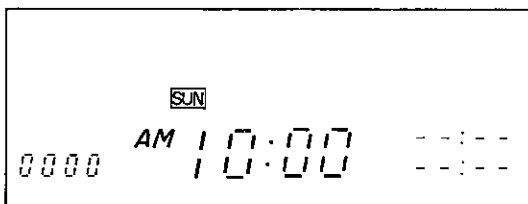
### A. SETTING THE CLOCK TIME (real time, time of day)

In the example below, the clock is being set to 10:30 AM, Tuesday.

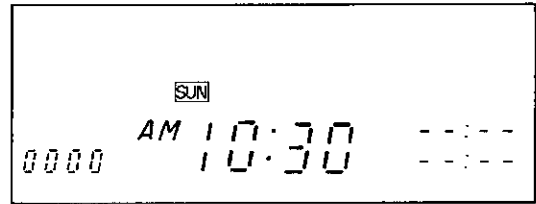
- (1) Connect line cord to AC outlet.
- (2) Press MAINS POWER switch to ON.
  - Unplugging Set or Power failure  
When power is restored to the VCR after being interrupted, the "0:00" colon display will flash on and off until the clock is reset.
- (3) Press and hold CLOCK SET button while performing steps 4, 5 and 6 below.



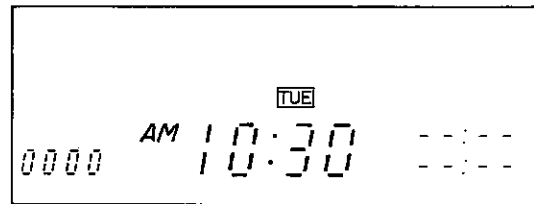
- (4) Press HOUR button.  
If this button is kept depressed, the hour indication advances in the order of 1 → 2..... 12 → 1.  
Release this button when display shows correct hours. (This sets the clock to "10 hours, AM".)



- (5) Press MINUTE button.  
If this button is kept depressed, the minute indication advances in the order of 01 → 02 ..... 59 → 00 → 01.  
Release this button when display shows correct minutes. (This sets the clock to "30 minutes".)



- (6) Press DAY/WEEK button.  
Each time this button is depressed, the day of the week indication advances such as SUN → MON → TUE ..... SUN . This sets the clock to "Tuesday".)



- (7) Release CLOCK SET button.
  - When the CLOCK SET button is depressed, single lighted dot will be visible between hours and minutes indication. Dot will alternate from top to bottom every 30 seconds.

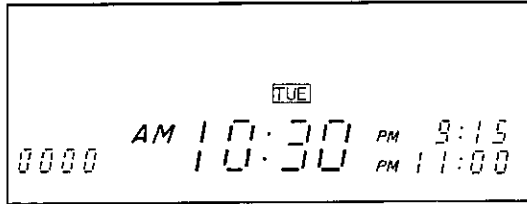
**NOTE:** Clock (day of week) is displayed in rectangular box.

**NOTE:** After clock has been set, single lighted dot will be visible between hours and minutes indication. Dot will alternate from top to bottom every 30 seconds.

## B. SETTING THE PROGRAM TIMER

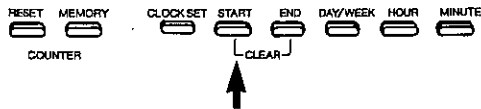
### 1. TO RECORD ON ONE DAY ONLY FOR ONE TIME FRAME

In the example below, Timer program is being set to record Channel 2 on Tuesday from 9:15 PM to 11:00 PM.

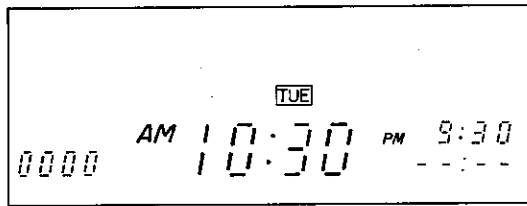


**NOTE:** Set TIMER only after Clock Time has been set.

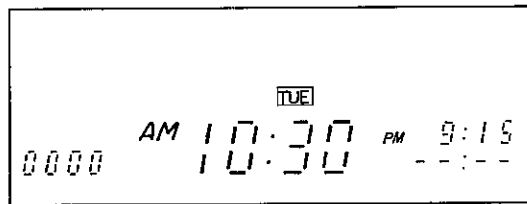
- (1) Press and hold START button while performing steps 2 and 3 below.



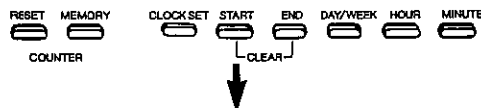
- (2) Press HOUR button.  
(This sets the timer to "9 hours, PM".)



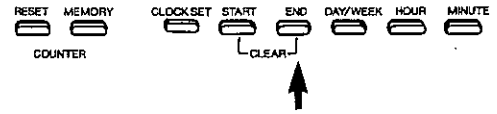
- (3) Press MINUTE button.  
(This sets the timer to "15 minutes".)



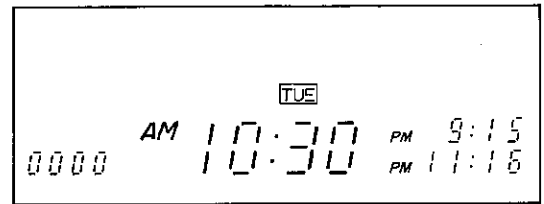
- (4) Release START button.



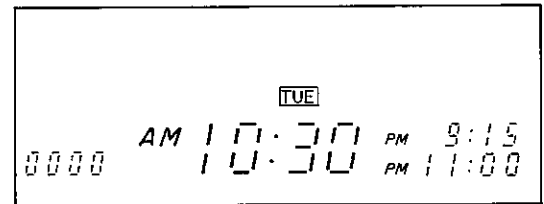
- (5) Press and hold END button while performing steps 6 and 7 below.



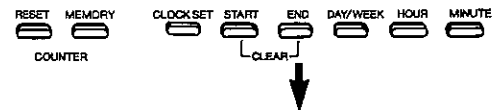
- (6) Press HOUR button.  
(This sets the timer to "11 hours, PM".)



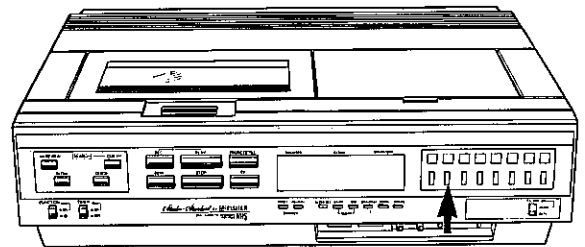
- (7) Press MINUTE button.  
(This sets the timer to "00 minutes".)



- (8) Release END button.



- (9) Select the channel to be recorded.  
(Press the "2" channel selector button.)

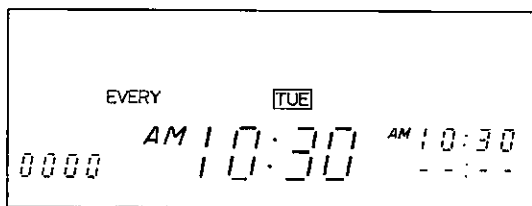


**Note:** Push TIMER SWITCH "ON" after programming, to record at the same day and time every week (Red light next to Timer Switch will light up.)

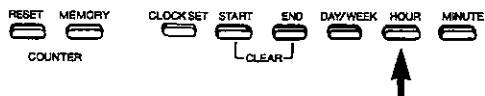
## 2. TO RECORD EVERY DAY AT THE SAME TIME

In the example below "REPEAT" Program is being set to record Channel 2 every day from 7:00 PM to 8:30 PM.

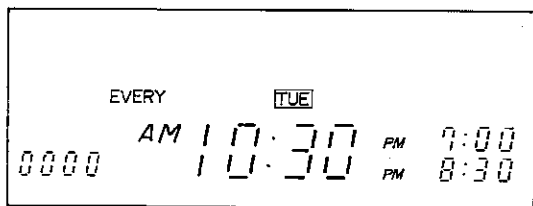
- Press and hold START button while performing steps 2, 3 and 4 below.
- Press DAY/WEEK button.  
Each time this button is pressed once, the day of the week indication advances such as SUN → MON ..... EVERY → SUN. (This sets the timer to "Every day".)  
**Note:** Timer (Set day) is displayed without rectangular box around letters of day.



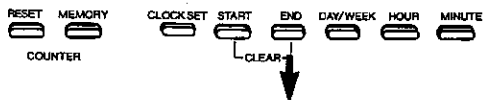
- Press HOUR button.  
(This sets the timer to "7 hours, PM".)



- Press MINUTE button.  
(This sets the timer to "00" minutes.)
- Release START button.
- Press and hold END button while performing steps 7 and 8 below.
- Press HOUR button.  
(This sets the timer to 8 hours, PM".)
- Press MINUTE button.  
(This sets the timer to "30 minutes".)



- Release END button.



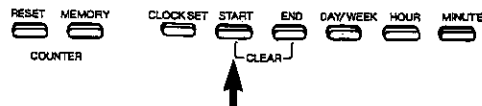
- Select the channel to be recorded.  
(Press the "2" channel selector button.)

**Note:** Push TIMER SWITCH "ON" after programing, to record every day at the same time (Red light next to Timer Switch will light up.)

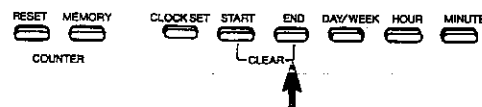
## 3. TO RECORD A PROGRAM ON ONE DAY AND THE FOLLOWING DAY

In the example below, program is being set to record Channel 2 on Wednesday from 11:00 PM to Thursday 1:30 AM.

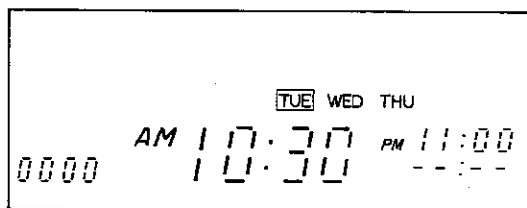
- Press and hold START button while performing steps 2, 3 and 4 below.



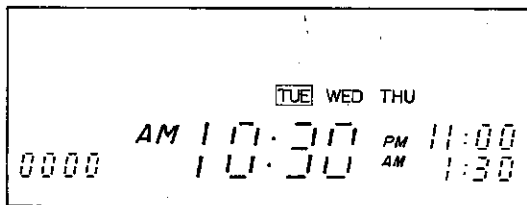
- Press DAY/WEEK button.  
(This sets the timer to "WED day".)
- Press HOUR button.  
(This sets the timer to "11 hours, PM".)
- Press MINUTE button.  
(This sets timer to "00 minutes".)
- Release START button.
- Press and hold END button while performing steps 7, 8 and 9 below.



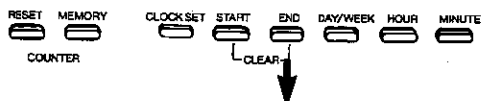
- Press DAY/WEEK button.  
(This sets the timer to "THU day".)



- Press HOUR button.  
(This sets the timer to "1 hour, AM".)
- Press MINUTE button.  
(This sets the timer to "30 minutes".)



- Release END button. ("TUE" disappears.)



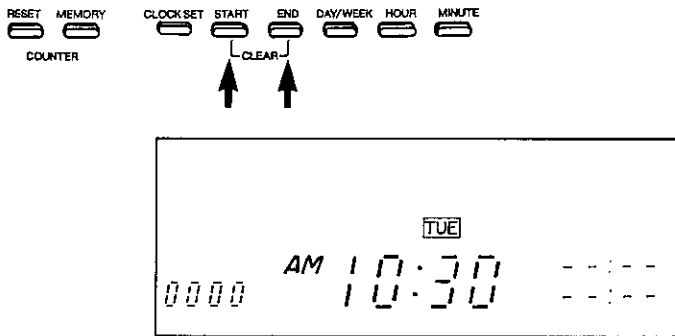
- Select the channel to be recorded.  
(Press the "2" channel selector button.)

**Note:** Push END or START button after setting a program.

### C. TO CLEAR ALL INFORMATION FROM PROGRAM

In the example below, all previous inputs are being cleared from program. It had been previously programmed to record Channel 2 on Wednesday from 11:00 PM to Thursday 1:30 AM.

(1) Press START and END buttons simultaneously



### D. CHANGE OF TIME

- Switch TIMER OFF. Red light next to Timer button will be out.

#### a. Change of Present Real Time and Day of Week

(1) Change of Present Real Time

- While pressing CLOCK SET button, press HOUR button then MINUTES button.

(2) Change of Day of Week

- While pressing CLOCK SET button, press DAY/WEEK button.  
(Time cannot be changed after day of week has been changed with CLOCK SET button pressed. Release CLOCK SET button once and press it again to change time.)

#### b. Change of Timer Program

(1) Change of Day of Week

- While pressing START button, press DAY/WEEK button. After the change, the indication showing the final day of week flashes and the initial day of week remains.  
(When the reservation time is changed without changing day of week, operation of DAY/WEEK button becomes unnecessary.)

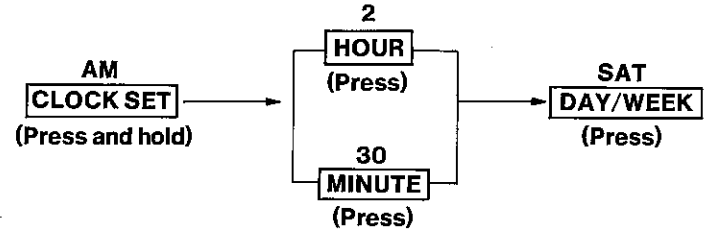
(2) Change of Time

- While pressing START button, press hour button then MINUTE button.
- While pressing end button, press HOUR button then MINUTE button.  
(For either one of initial time or final time, reset only the side to be changed.)

### E. NOTES ON TIME SETTING

- Time setting can be performed by using either one of the following methods.

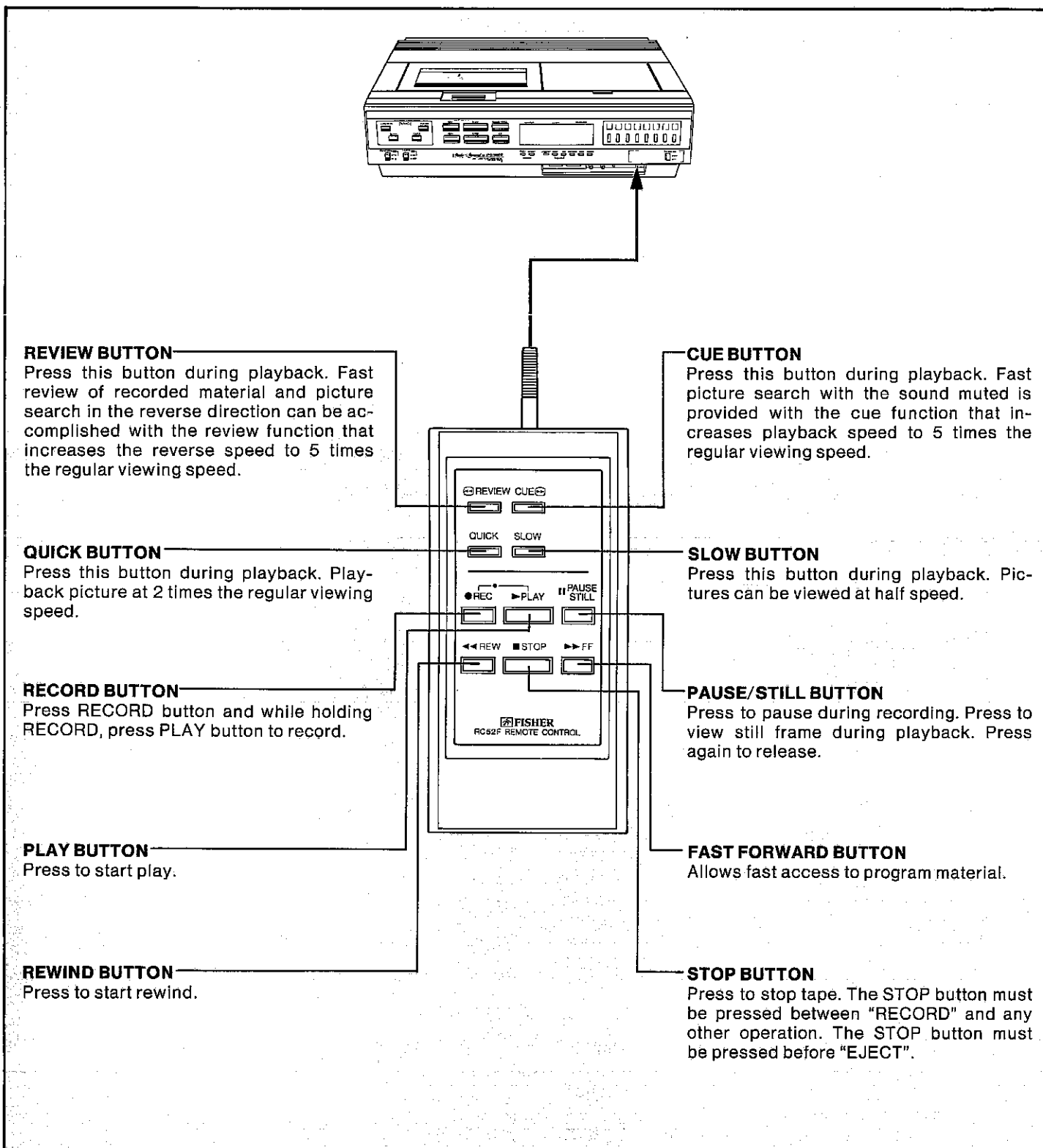
#### 2:30 SATURDAY



- You may have to go through a complete 12 hour period to set the correct AM or PM period. "PM 12:00" indicates noon; "AM 12:00" indicates midnight.
- When the power cord of the unit is inserted into the wall outlet and MAINS POWER switch to ON, time or program reservation setting can be performed regardless of the function switch.  
(Timer or reservation setting cannot be performed during timer recording.)
- When the power cord is disconnected from the wall outlet or power is interrupted by a power failure, both time and reservation settings are cancelled.
- When timer reservation is set incorrectly, the final time flashes, indicating the wrong setting.
- If the reservation time is set on one day and the following day, it is necessary to set both days of the week corresponding to the day and the following day.
- To stop recording while the unit is in timer recording mode, turn off the timer switch.
- When the timer switch is ON, the automatic rewinding mechanism does not function.
- If abnormal timer indication or no indication appears on the display, disconnect the power cord from the wall outlet and re-connect it.

## OPERATING THE VCR WITH REMOTE CONTROL

You can operate your VCR from a remote location by using the Remote Control Unit supplied. Plug the Remote Control Unit cable into the Remote Control jack. Each button on the Remote Control Unit performs the same function as the corresponding button on the VCR.



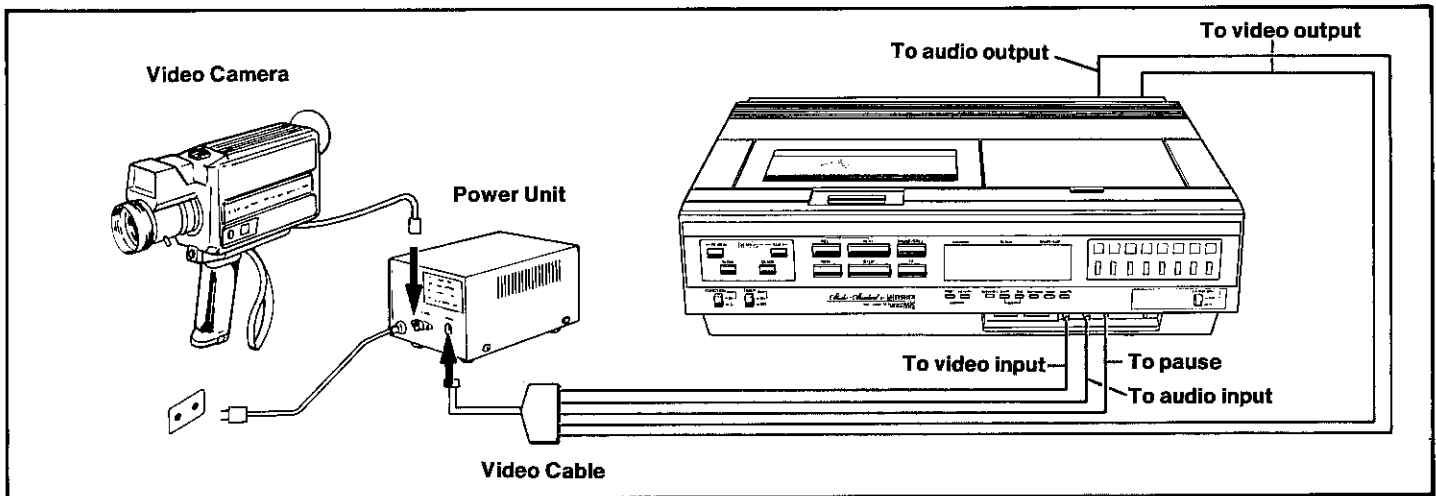
### Note:

When using the remote control box, do not press the remote control box key and unit keys together. If pressed together, the unit may not be set to the desired function mode, or the safety device in the unit may be activated and no operation at all may possible. When this happens, disconnect the AC power plug from the outlet for a few seconds. Then re-connect it and normal operation will result.



## RECORDING FROM A VIDEO CAMERA

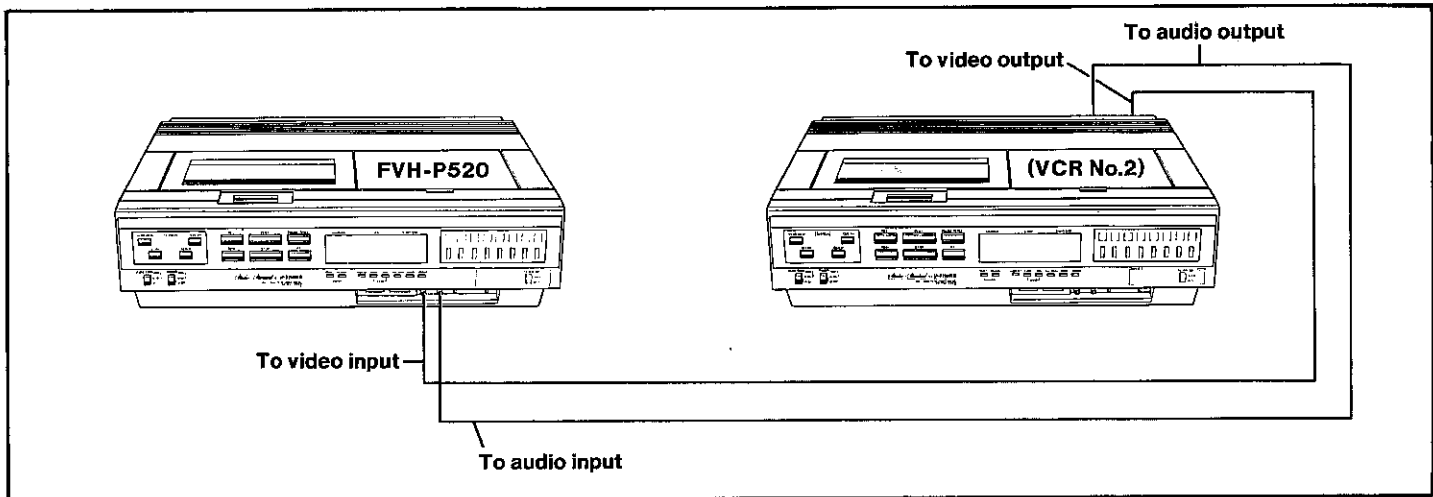
Video Camera and Power Supply for Video Camera are required. Connect the Video Camera to Camera Power Supply and then connect Power Supply output cables to VCR. (Refer to the Instruction Manual of the Camera as well as these instructions.)



1. Turn on power switch of Camera Power Supply Unit and press VCR function switch to ON position.
2. Insert cassette.
3. Adjust aperture, focus and white balance on camera.  
(Refer to Instruction Manual of Video Camera.)
4. Press RECORD button and while holding it in, press PLAY button.
5. Press Remote Control button on Camera. Recording begins.
6. Press Remote Control button again to stop recording temporarily.
7. Press STOP button on VCR to stop recording.

## DUBBING

Dubbing (copying) is transferring a recording or parts of it from one tape to another by using two video cassette recorders.



1. Insert the recorded video tape into VCR No.2
2. Connect the VIDEO OUT and AUDIO OUT terminals of VCR No.2 to the VIDEO IN and AUDIO IN terminals of FVH-P520.
3. Insert a video tape to be recorded into the cassette holder of FVH-P520.
4. Turn on TV and set the channel selector of TV to the same channel number as RF converter.
5. Play back the recorded cassette tape.
6. While pressing the Record button, press the Play button.  
Then the video and audio signals reproduced from VCR No.2 can be recorded on the cassette tape of FVH-P520.

## TROUBLESHOOTING GUIDE

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

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
No power	<ul style="list-style-type: none"> <li>● Power cord is not connected.</li> <li>● MAINS POWER switch at the rear set to OFF.</li> <li>● Timer switch is ON</li> </ul>	<ul style="list-style-type: none"> <li>● Connect power cord to an AC outlet.</li> <li>● Set the MAINS POWER switch to ON.</li> <li>● Turn off timer switch and turn on FUNCTION switch.</li> </ul>
Timer recording is not possible.	<ul style="list-style-type: none"> <li>● The program timer is set incorrectly.</li> <li>● The timer switch set to OFF.</li> </ul>	<ul style="list-style-type: none"> <li>● Set the program timer correctly</li> <li>● Set the timer switch to ON</li> </ul>
REC mode can not be engaged.	<ul style="list-style-type: none"> <li>● The record safety tab on cassette is missing.</li> <li>● The PLAY button is not depressed while holding the RECORD button.</li> </ul>	<ul style="list-style-type: none"> <li>● Place vinyl tape over missing safety tab.</li> <li>● Press the RECORD button and while holding the button, press the PLAY button.</li> </ul>
Picture is poor on playback.	<ul style="list-style-type: none"> <li>● The TV channel selector is not set to the proper channel.</li> <li>● The TV fine tuning is not set correctly.</li> </ul>	<ul style="list-style-type: none"> <li>● On playback, set the TV channel selector to channel 3 or 4.</li> <li>● Fine tune your TV.</li> </ul>
Noise in picture on playback	<ul style="list-style-type: none"> <li>● Video head is dirty.</li> </ul>	<ul style="list-style-type: none"> <li>● Head cleaning is necessary.</li> </ul>
No picture on playback	<ul style="list-style-type: none"> <li>● The TV is not set to the proper channel.</li> </ul>	<ul style="list-style-type: none"> <li>● Set to correct channel, CH3 or CH4 (for your video channel).</li> </ul>
Playback picture is partially noisy.	<ul style="list-style-type: none"> <li>● The TRACKING control is not set to center position.</li> </ul>	<ul style="list-style-type: none"> <li>● Adjust TRACKING control for better picture.</li> </ul>
Operation buttons do not work when MAINS POWER is on, FUNCTION switch is ON and cassette is inserted.	<ul style="list-style-type: none"> <li>● STOP indicator is flashing to give "DEW" warning.</li> </ul>	<ul style="list-style-type: none"> <li>● Wait until it stops flashing, then proceed with operation.</li> </ul>
TV program cannot be recorded.	<ul style="list-style-type: none"> <li>● Video camera, etc, is not disconnected.</li> </ul>	<ul style="list-style-type: none"> <li>● Disconnect video camera, etc.</li> </ul>
Off-the-air TV programs can't be seen.	<ul style="list-style-type: none"> <li>● Connections are not correctly made.</li> </ul>	<ul style="list-style-type: none"> <li>● Recheck connections.</li> </ul>

## TECHNICAL DATA

Television system	PAL standard color (system B & G) & CCIR monochrome signals 625 lines
Recording system	Rotary two-head helical scan system
Format	VHS PAL standard
Tape width	12.7 mm
Tape speed	23.39 mm/sec.
Operation Temperature:	5°C to 40°C
Recording time	240 minutes with E-240 cassette
Tape loading system	Automatic loading
Tuner channel selection system	Soft touch, 8 channels
Tuner channels	VHF: Channel 0 - 5, 5A - 11 UHF: Channel 21 - 65
RF converter	Built-in VHF converter
Converter output	Channel 3 or 4 (switchable)
Time indication	AM/PM 12-hour system
Timer	Weekly programmable (one program with separate time indication for start and end time)
Tape counter	Separate 4-digit electronic display
Auto rewind system	Activated at end of tape when function switch is in "ON" position
<b>TERMINALS</b>	
Antenna input	DIN (socket)
Antenna output	DIN (plug)
Video input/output	RCA connector
Audio input/output	RCA connector
Camera remote pause	2.5 mm jack
Remote	3.5 mm jack
<b>Electrical Specifications</b>	
Video output level	1 Vp-p
Video output impedance	75 ohms
Audio output level	-6dBm
Audio output impedance	600 ohms
Video input level	0-5 - 2.0 Vp-p
Video input impedance	75 ohms
Audio input level	-20 dBm
Audio input impedance	50 kohms
Video S/N ratio	43 dB
Audio S/N ratio	42 dB
Audio bandwidth	50 Hz - 10 kHz
Horizontal resolution	Colour 240 lines
Other specifications	
Power requirement	240V, 50Hz
Power consumption	57 Watts
Dimensions	480 mm (W) x 130 mm (H) x 340 mm (D)
Weight	10 kg (Approximate)

Because its products are subject to continuous improvement, FISHER Corporation reserves the right to modify product designs and specifications without notice and without incurring any obligation.

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## 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 causes this problem. In this case, head cleaning requiring highly technical care is necessary.
- For head cleaning, consult the nearest FISHER dealer.

