

TOSHIBA

OWNER'S MANUAL

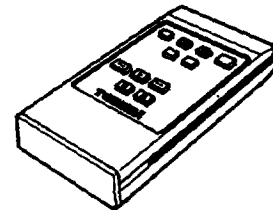
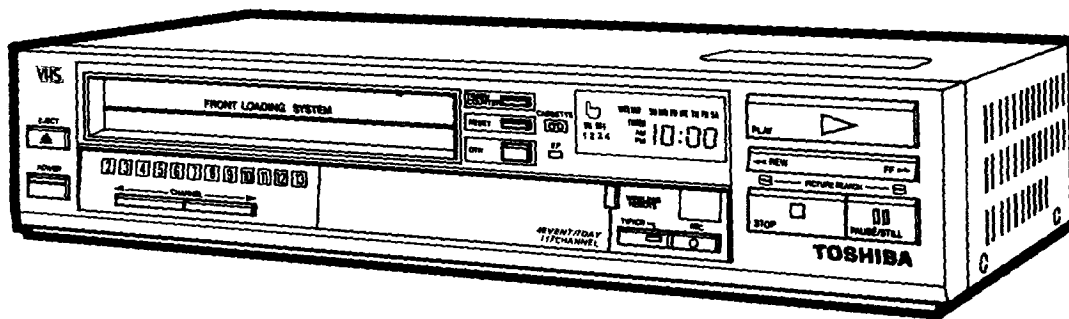
VIDEO CASSETTE RECORDER

VHS

M-5010

MAXSERV
LIBRARY

7



SHOULD YOUR UNIT REQUIRE SERVICE, PLEASE REFER TO "TOSHIBA SERVICE PROCEDURE" ON BACK COVER.

Thank you for purchasing the Toshiba M-5010 Video Cassette Recorder. It will accept any VHS cassette tape and can be used to record TV programs with its built-in tuner or to make home video shows with a Toshiba video camera. However, before using the unit, please read this owner's manual carefully to ensure optimum, trouble-free performance.

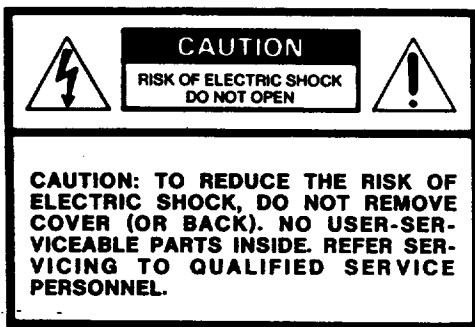
WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. DANGEROUS HIGH VOLTAGES ARE PRESENT INSIDE THE ENCLOSURE. DO NOT OPEN THE CABINET. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

Record in the spaces provided below the Model and Serial No. located at the rear of your video cassette recorder.

Model No. _____

Serial No. _____

Retain this information for future reference




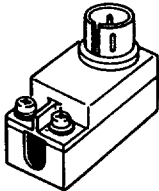

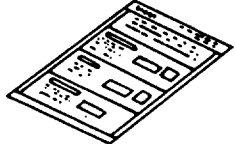
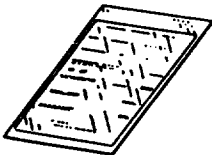
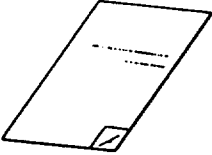
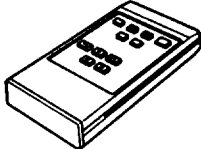
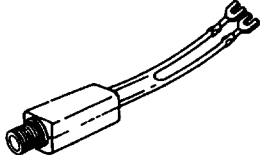
The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



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

ACCESSORIES

Check to make sure that the following accessories before disposing of the packing materials.

| | | | |
|---|---|--|--|
| <p>① ANTENNA CABLE</p>  | <p>② 300 ohm/ 75 ohm MATCHING TRANSFORMER</p>  | <p>③ 300 ohm TWIN-LEAD CABLE</p>  | <p>④ QUICK REFERENCE CARD</p>  |
| <p>⑤ CHANNEL NUMBER SHEET</p>  | <p>⑥ SAFETY INSTRUCTIONS</p>  | <p>⑦ REMOTE CONTROL UNIT (Wireless) WITH BATTERIES 2 PCS. "AA" SIZE</p>  | <p>⑧ 75-300 ohm MATCHING TRANSFORMER</p>  |

NOTE: This Video Cassette Recorder is compatible with any Video Cassette Recorder bearing the **VHS** mark.

Save the original shipping carton and packing materials; they will come in handy if you ever have to ship your VCR. For maximum protection, repack the set as it was originally packed at the factory.

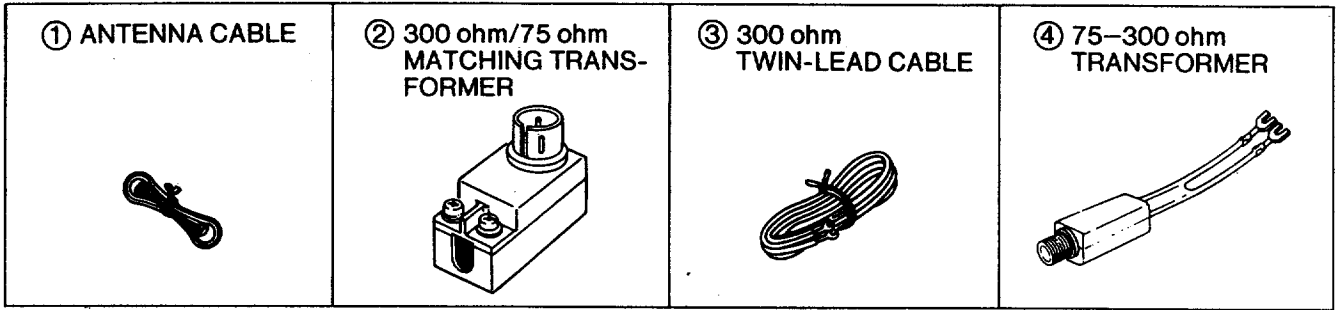
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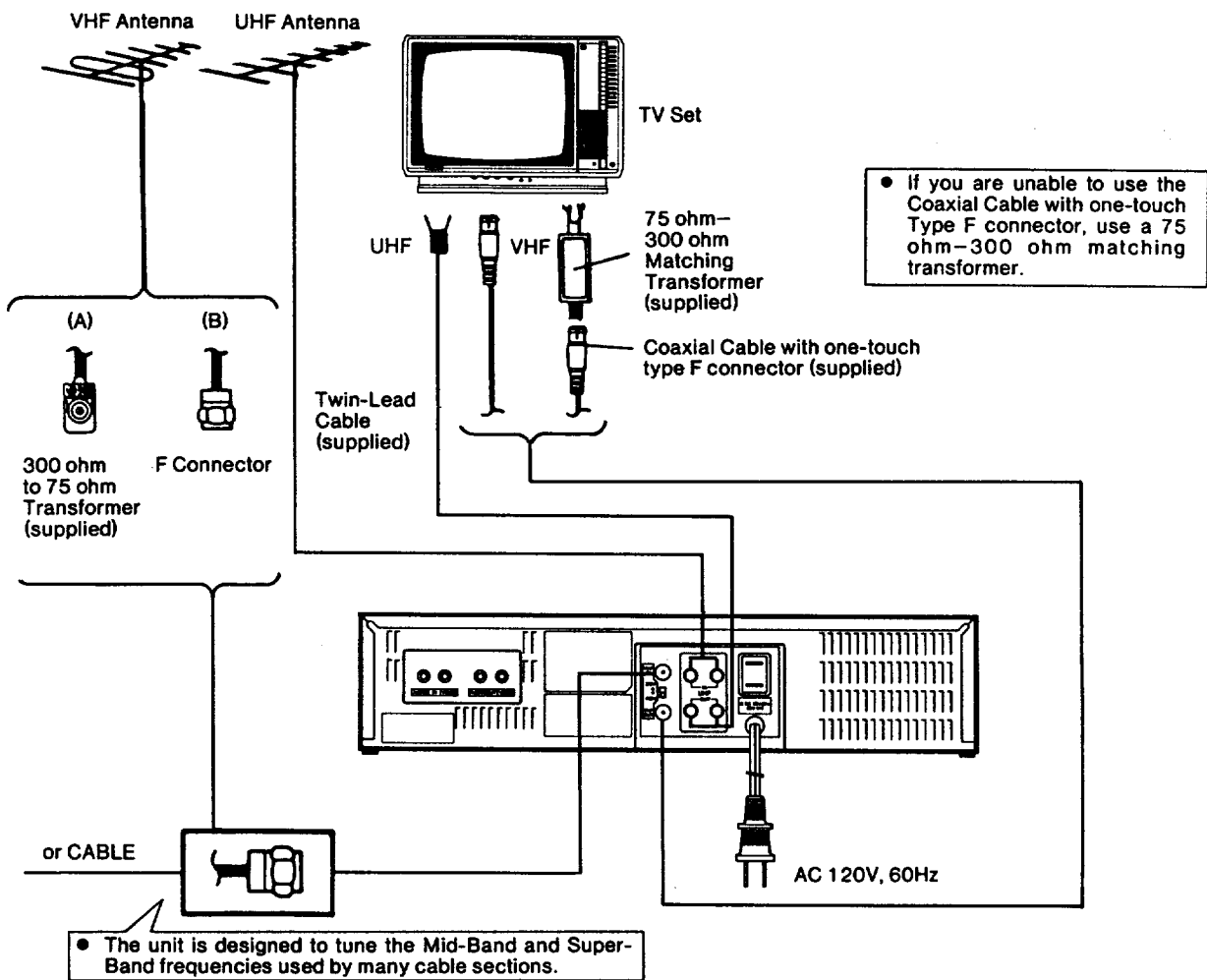
<FEATURES>

- 1. One touch timer recording function.**
- 2. Quick search.**
- 3. Slow and still picture.**
- 4. 117 channels cable compatibility.**
- 5. Auto rewind facility.**
- 6. Electronic Counter.**
- 7. Electronic Tuner.**

ANTENNA CONNECTION



1. Remove the Antenna Cable from the TV set. Connect it to the "VHF IN", "UHF IN" Terminal of the VCR.
2. Connect one end of the Antenna Cable and Twin-lead cable to the "VHF OUT", "UHF OUT" Terminal of the VCR.
3. Connect the other end to the "VHF", "UHF" Terminal of the TV.



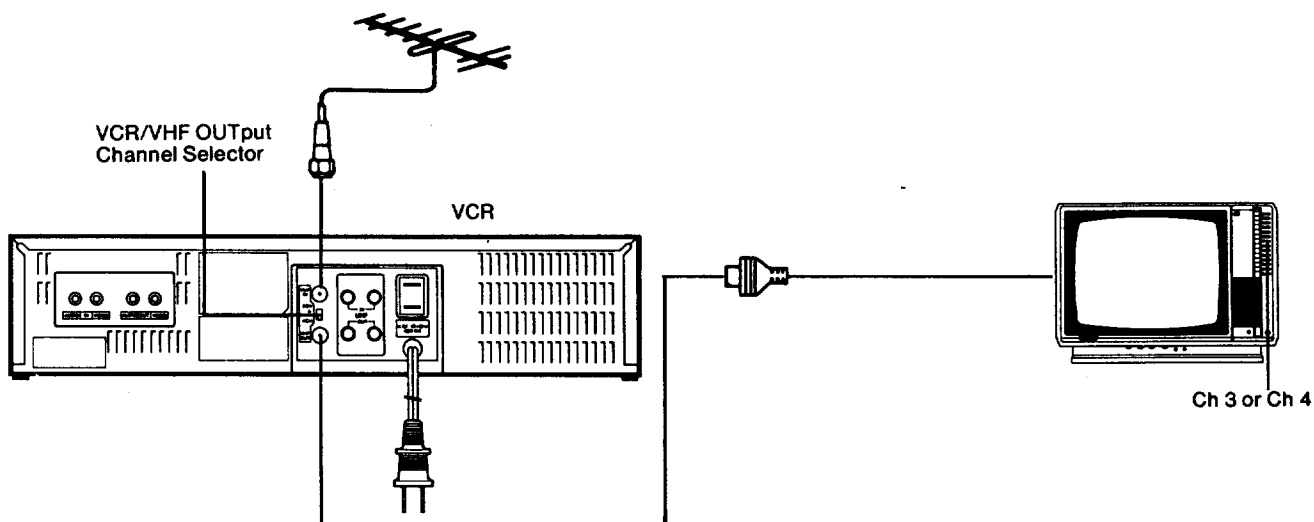
NOTE TO CATV SYSTEM INSTALLER:

This reminder is provided to call the CATV system installer's attention to Article 820-22 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.

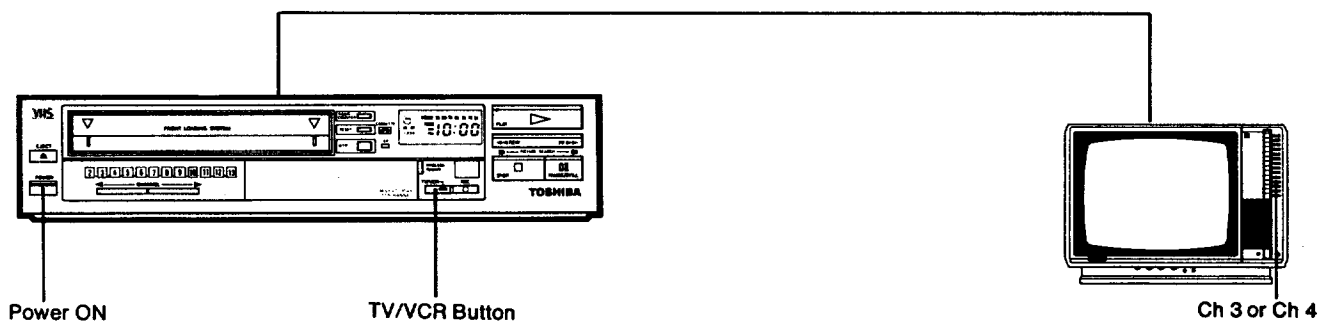
In the above configuration, you can record programs from CATV channels as well as VHF channels 2 through 13. You can record programs from 117 CATV channels except scrambled channels.

SET YOUR TELEVISION TO THE VCR CHANNEL

1. Set your TV to channel 3 unless channel 3 is one of the TV stations in your area. If channel 3 is used in your area, set your TV to channel 4 and slide the VCR/VHF OUTput Channel Selector toward channel 4. The VCR/VHF OUTput Channel Selector is located on the rear panel at left side of the antenna connector. This is the VCR channel on your television set. Your television receiver must be tuned to this channel any time a video cassette is played back on the VCR.



2. Plug the VCR power cord into a 120V electrical outlet and press the **"POWER"** button. The **"POWER"** lamp will light. The clock will flash repeatedly. This is not a malfunction (see page 7).
3. Press the **"TV/VCR"** button. The VCR lamp will light. Select an active TV channel by pushing the VCR Channel Selector Buttons. The picture from that channel should now be displayed on your television.

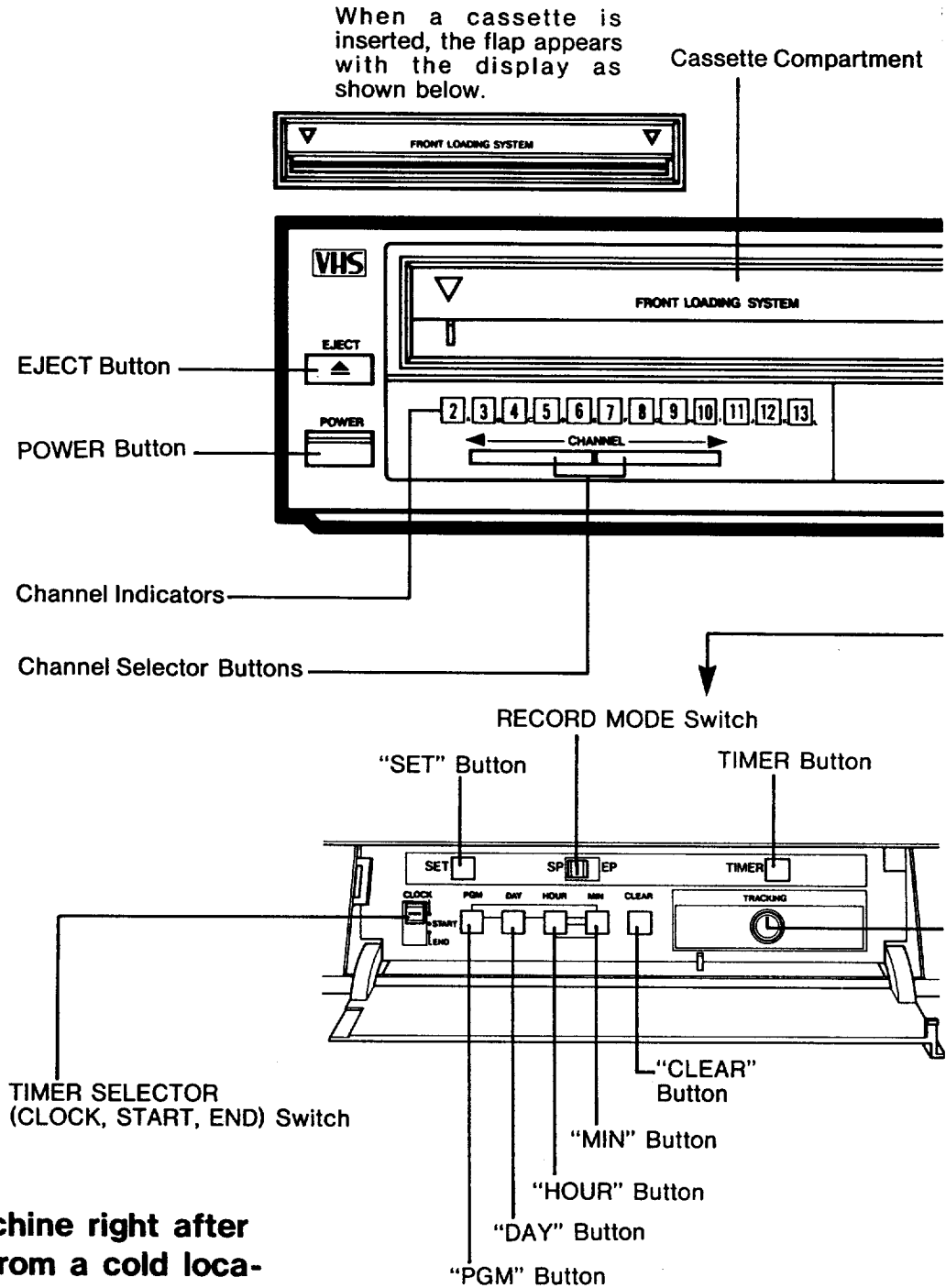


NORMAL TV VIEWING

1. Turn ON your TV receiver. There is no need to turn the POWER switch of VCR ON.
 2. Tune your TV receiver to the channel you want to watch.
- * The TV/VCR button should be set to TV position (The VCR Indicator lamp goes OFF.) if the POWER button is turned ON.

IDENTIFICATION OF CONTROLS

(FRONT)



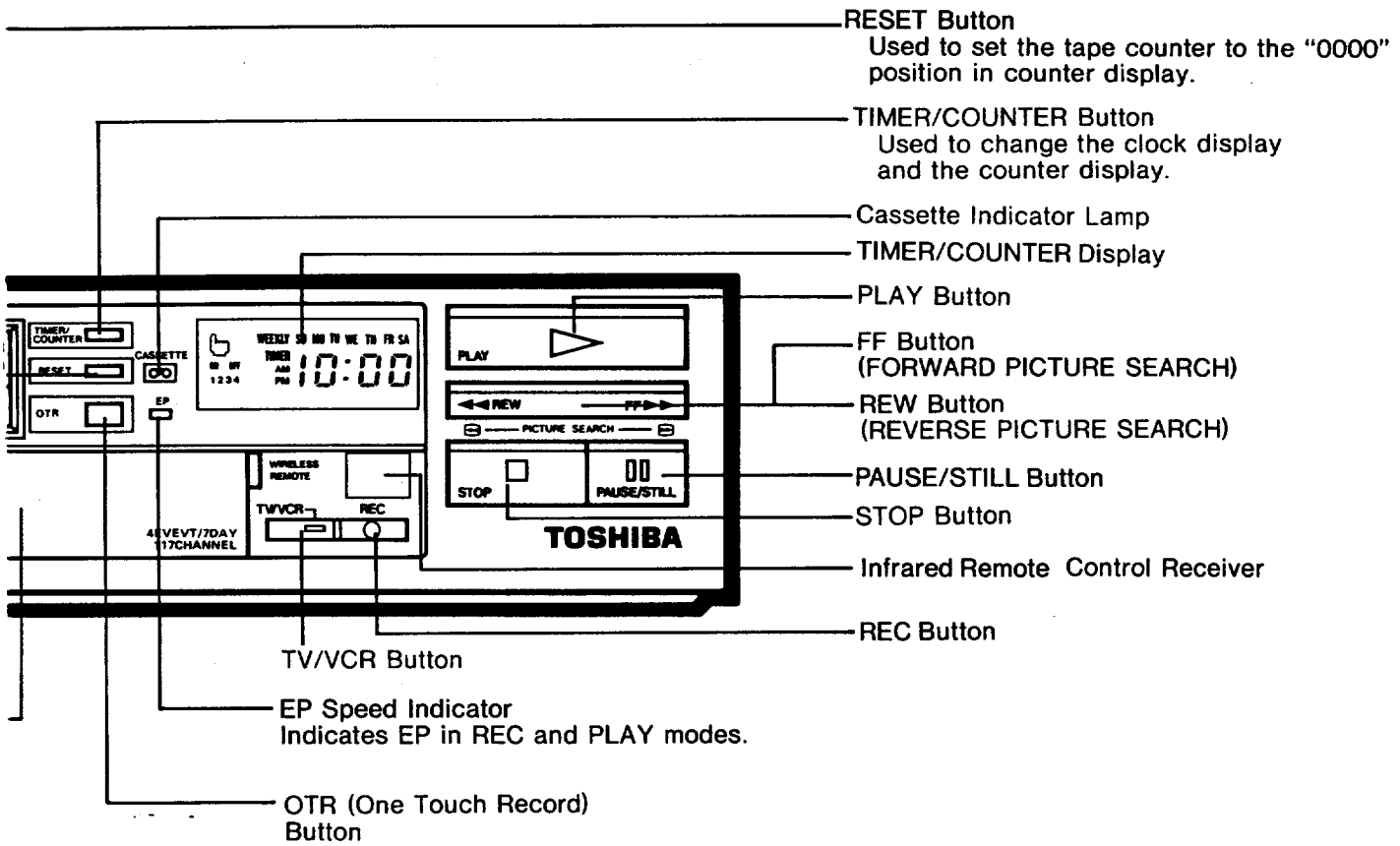
CAUTION

Never operate the machine right after having transported it from a cold location directly to a warm location.

Wait for about two hours.

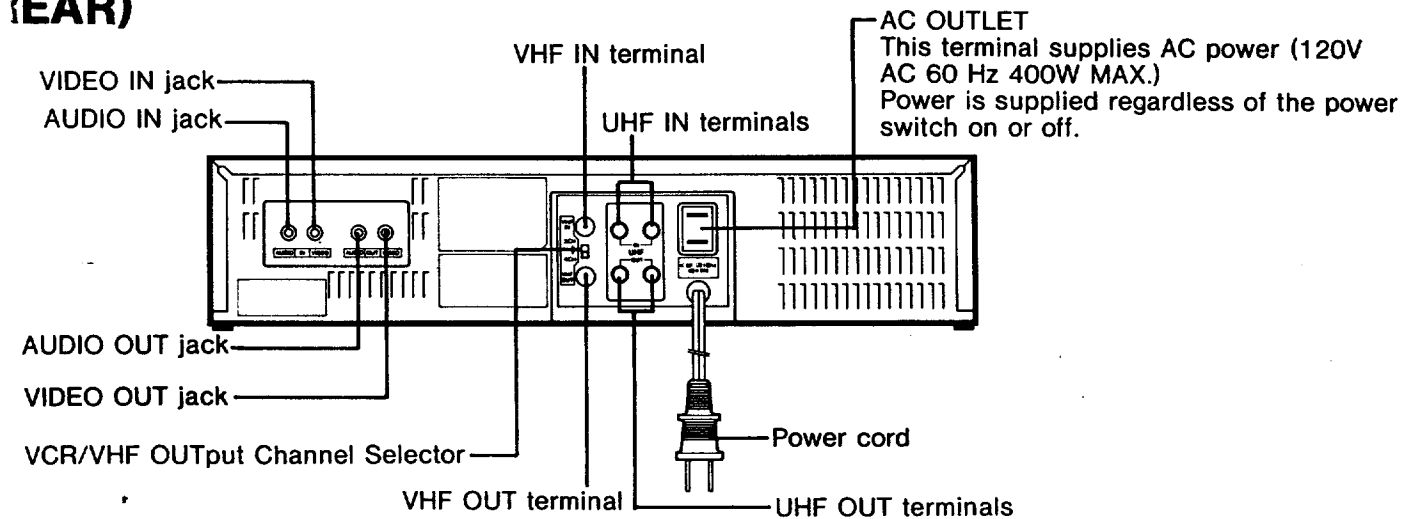
This is because, in such a case, moisture may condense on the head cylinder inside the machine.

The tape will tend to stick to the head cylinder and will be damaged.



TRACKING Control Knob
When noise stripes occur on the playback picture, turn this knob to the right or left to minimize the noise.

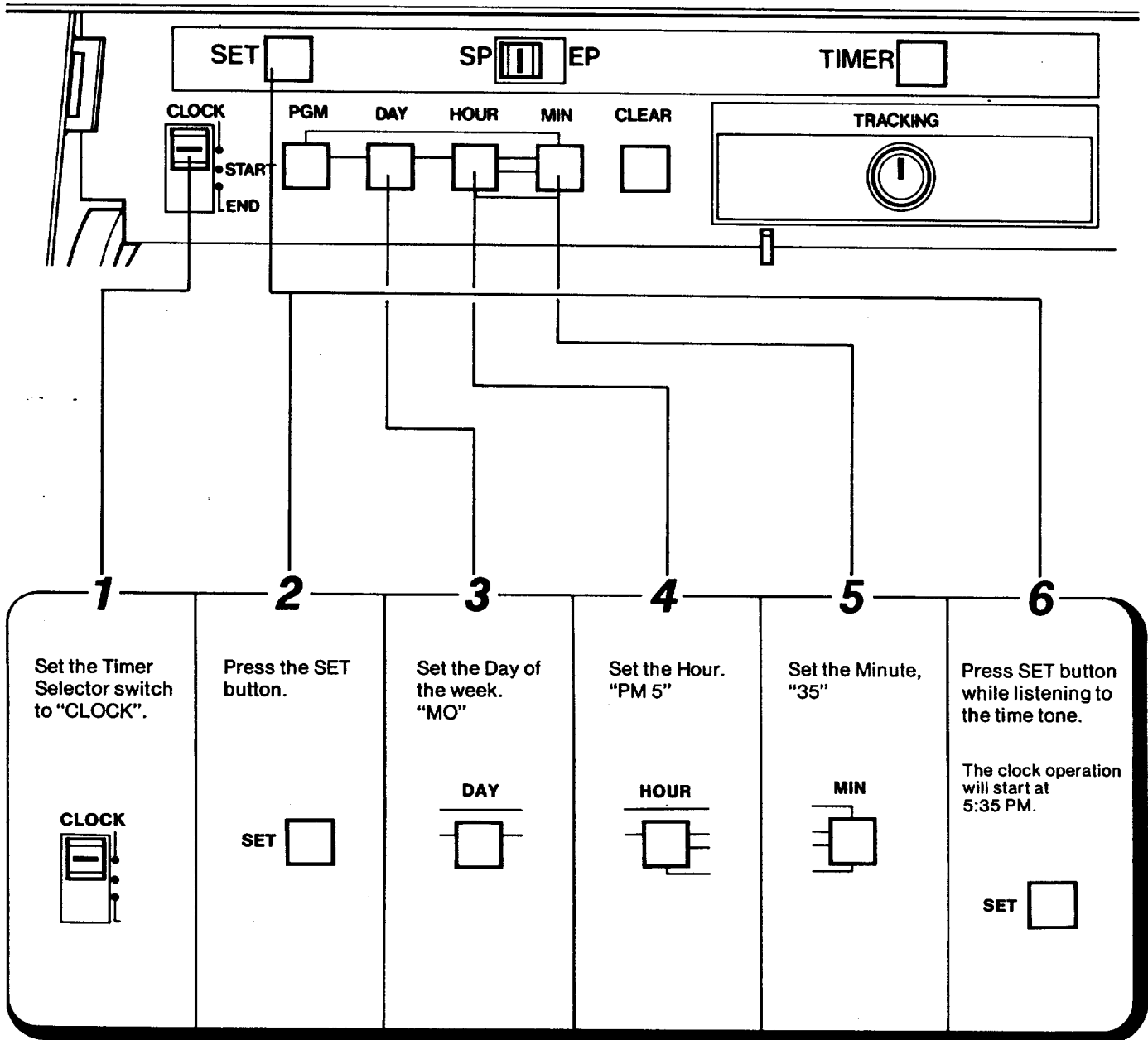
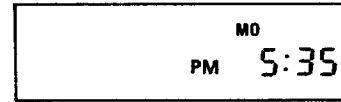
REAR)



SETTING THE PRESENT TIME

This clock provides a 12-hour display. The time display brightness will automatically darken from 10 PM to 6 AM.

Example: Monday, 5:35 PM



When a power interruption occurs:

After about 2 minutes of power interruption, the clock display will flash. Reset the video timer again after setting the clock. The colon (:) blinks for any instantaneous power interruption. Press the SET button twice to reset blinking colon display.

CHANNEL SELECTION

This video recorder has been preadjusted for VHF channels 2 through 13. To receive other VHF and UHF channels, or when rearranging the channel order, reset them as follows.


1

2

3



4

Turn the TV power on and set the VCR channel (Channel 3 or 4).




Turn the VCR power on.

Press the TV/VCR button to VCR.

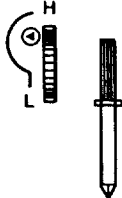




Select the channel to be adjusted by pushing channel button.




- ① Open the cover and set AFT switch to "OFF".
- ② Select the channel range with the attached band selection screwdriver.

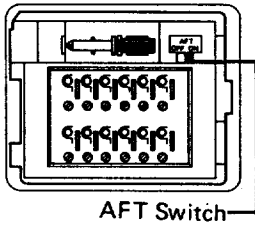
| | | |
|----------------|----|--|
| V _L | CH | 2-6 |
| V _H | CH | A ₂ , A ₁ , A to I, 7-13 |
| U | CH | 14-83 |
| CATV | CH | J-W, AA to JJ |

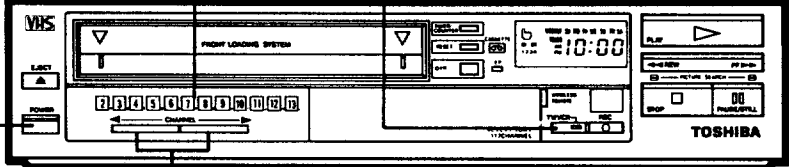
- ③ Turn the tuning knob so that the desired channel has excellent picture and sound.

Larger numbered channels are found by rotating the knob to High. Smaller numbered channels rotated to Low.





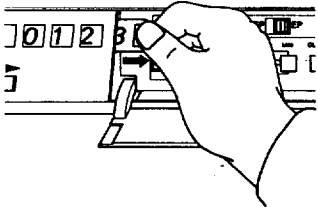
AFT Switch



5

Replace the labels to match the new channel order.

- ① Pull the number plate out.
- ② Remove the number labels and cut off the label.
- ③ Select a channel number tag and place it on the number plate.
- ④ Replace the number plate.



- Next, reset the other channel buttons by repeating 3 and 4.
- Turn the AFT switch "ON" and close the cover.

VIDEO CASSETTE

Recording And Playback

● Only video cassettes with **VHS** mark can be used. This VCR can record at two different speeds (EP mode: 1.11 cm/sec, and SP mode: 3.34 cm/sec.). It is preset for SP speed. The correct playback speed is selected automatically from among three speeds (EP, LP and SP) by the recorder.

Note: Other playback modes (Slow, Still, Picture Search) can be performed in EP mode.

[Performance]

| | EP | LP | SP |
|-----------|----|----|----|
| Recording | ○ | — | ○ |
| Playback | ○ | ○ | ○ |

■ When an important recording is to be made, make a trial recording to confirm that picture and sound are normal.

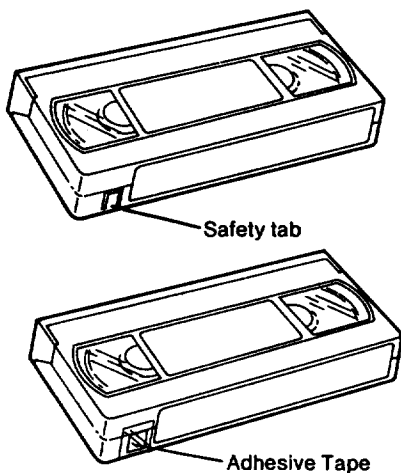
- Video recording can only be performed on one side of a video cassette unlike an audio cassette.
- If a new recording is made on a cassette that was previously recorded, the previous picture and sound are erased, and a new picture and sound are recorded. Remove the tab on the back of the video cassette to prevent accidental erasure of recorded materials.

Video recording cannot be performed on a cassette with the tab removed.

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

● Cassettes and maximum recording time

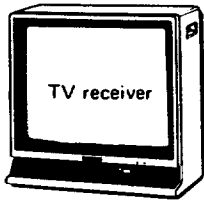
| Record Mode \ Video Cassette | T-160 | T-120 | T-60 | T-30 |
|------------------------------|----------|----------|----------|----------|
| | EP | 480 min. | 360 min. | 180 min. |
| SP | 160 min. | 120 min. | 60 min. | 30 min. |



RECORDING A TV PROGRAM

1

Turn the TV power on and set the VCR channel. (Channel 3 or 4)



See page 4 for the VCR channel.

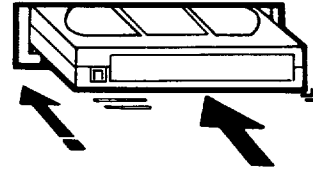
2

Turn the VCR power on.

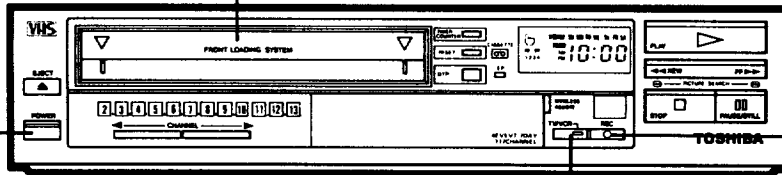


3

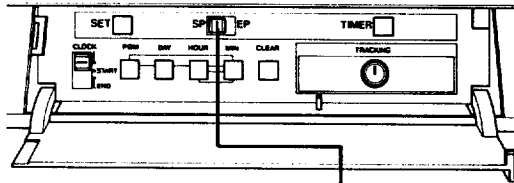
Insert a video cassette. The cassette indicator lamp flashes until the cassette is installed properly.



Confirm that the cassette tab is not broken.



Notes: 1. Any AUDIO or VIDEO Input should be disconnected from the terminals.
2. To change a channel during recording, press the PAUSE/STILL button, select the desired new channel then press the PAUSE/STILL button to continue the recording.



4

Press the TV/VCR button to VCR.



5

Press the Channel Selector buttons to desired channel. At this time, set the Record Mode switch to EP or SP.



6

Press the REC button.



● Press the PAUSE/STILL button to eliminate unnecessary material.

Although the program continues on the TV screen, the tape is stopped and video recording is not performed. To resume video recording, press the PAUSE/STILL button again. Unnecessary material can be eliminated with this procedure.

Note: If pause is continued for about 10 minutes, the recorder returns to the stop mode in order to protect the tape and internal video recorder components.

● Viewing another program while recording.

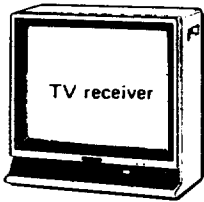
If two desired programs are on at the same time, one program can be viewed while the other is being recorded.

1. Start recording one program by following procedures 1 to 6 above.
2. Press the TV/VCR button to TV. (Lamp goes off.)
3. Select the desired TV channel for viewing by using the TV channel selector of your TV receiver.

PLAYBACK

1

Turn the TV power on and set the VCR channel. (Channel 3 or 4.)



See page 4 for the VCR channel.

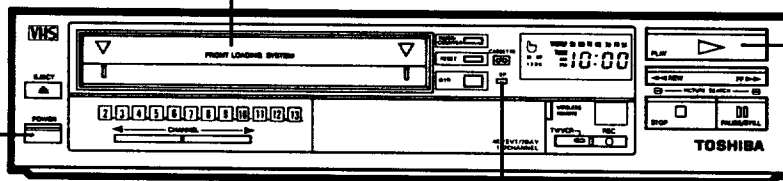
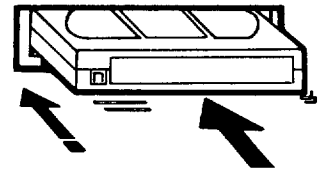
2

Turn the VCR power on.



3

Insert a video cassette correctly.



EP Speed Indicator

4

Press the PLAY button.
The playback picture appears on the TV after about 5 seconds.
At this time, TV/VCR button is automatically switched to VCR.



■ To stop playback:

Press the STOP button.

Next, press the EJECT button to remove the video cassette. The cassette indicator lamp flashes until the video cassette comes out.

■ Tape speed

Video cassettes recorded by SP, LP and EP tape speeds can be viewed with this VCR. The tape speed is automatically set during playback.

■ Auto Rewind

When a video cassette tape ends during playback and recording (except timer recording), the auto rewind automatically rewinds the tape.

OTHER PLAYBACK MODES

1. Slow Playback

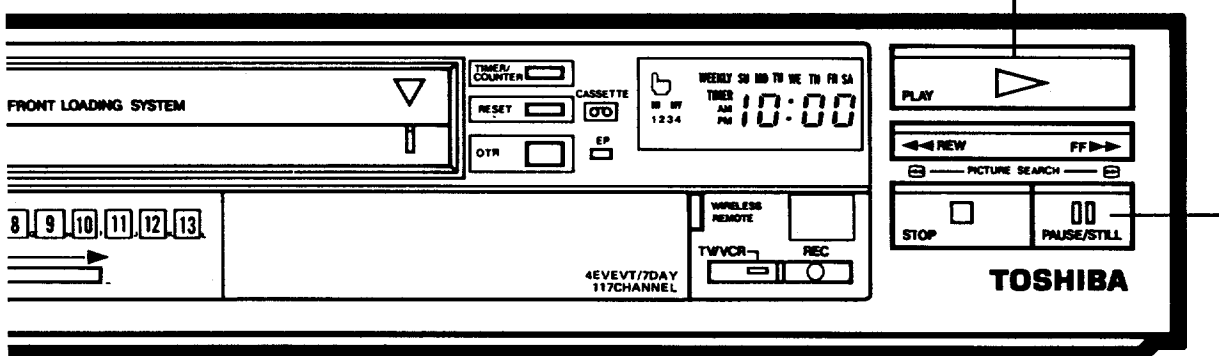
1. Press the PLAY button.
2. Press the PAUSE/STILL button.
3. For frame by frame operation, press and release PLAY button to advance the picture one frame at a time. Slow playback at 1/120 the speed of standard playback can be viewed while the PLAY button is pressed.
4. Press the PAUSE/STILL button to return to normal playback.

2. Still picture playback

To freeze the picture, press the PAUSE/STILL button during PLAY mode.

Notes

1. If noise appears in the center of the still picture, try moving the noise out of the way by pressing the PLAY button. The sound is muted.
2. Still picture returns to normal playback after about 5 minutes to protect the tape.
3. During still and slow operations, the LP and SP mode pictures will be distorted.



3. Picture Search

Review or Cue allow playback at about 7 times the normal speed, and can be performed with quick search. It is very convenient during search for a particular section on the tape.

- ① Press the PLAY button.

Normal playback.

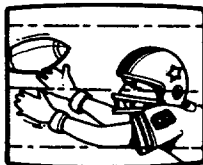
- ② Press the REW (FF) button.

Rewind playback (fast forward playback) at about 7 times normal speed

- ③ Press the PLAY button.

Normal playback

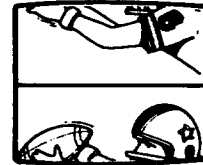
- Several static horizontal noise lines will appear during picture search. The sound is muted.



- When the picture is shifted horizontally during picture search, adjust the TV horizontal control knob.



- When the picture shifts vertically during picture search, adjust the TV vertical control knob.



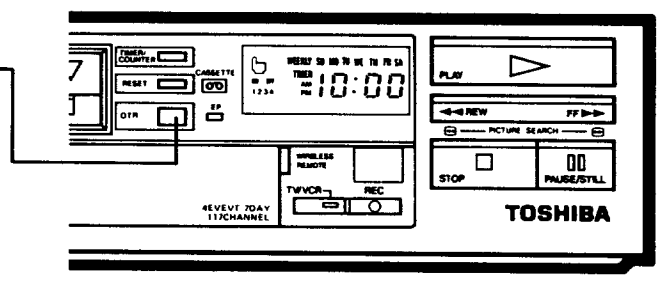
Note: During picture search operation, the wide noise lines will appear in SP mode picture.

PROGRAMMABLE TIMER

- The timer can be preset to record up to four programs on one specific day of the week or at the same time every day, or at different times on different days of the week.
- If power to the VCR is interrupted, the clock will continue to run and the programmed instructions will be retained for about 2 minutes.
After 2 minutes of power interruption, if the clock flashes SU AM 12:00, the clock and program contents will have to be reset.
- The clock used is of the 12-hour type.

OTR Button

- Used to carry out recording in units of 30 minutes in normal mode.
Present time → 30 min → 60 min →
- Used to specify the timer on time in units of 30 minutes. (Max 3 hours)
30 → 60 → 90 → 120 → 150 →



SET button

- Used to set the present time.
- When this button is pressed once, the unit enters clock set mode. When the button is pressed again, clock set mode is released.

Timer Selector Switch

- CLOCK mode
For the present time display.
- START mode
For checking and setting the timer on time.
- END mode
For setting and checking the timer off time.

PGM Button

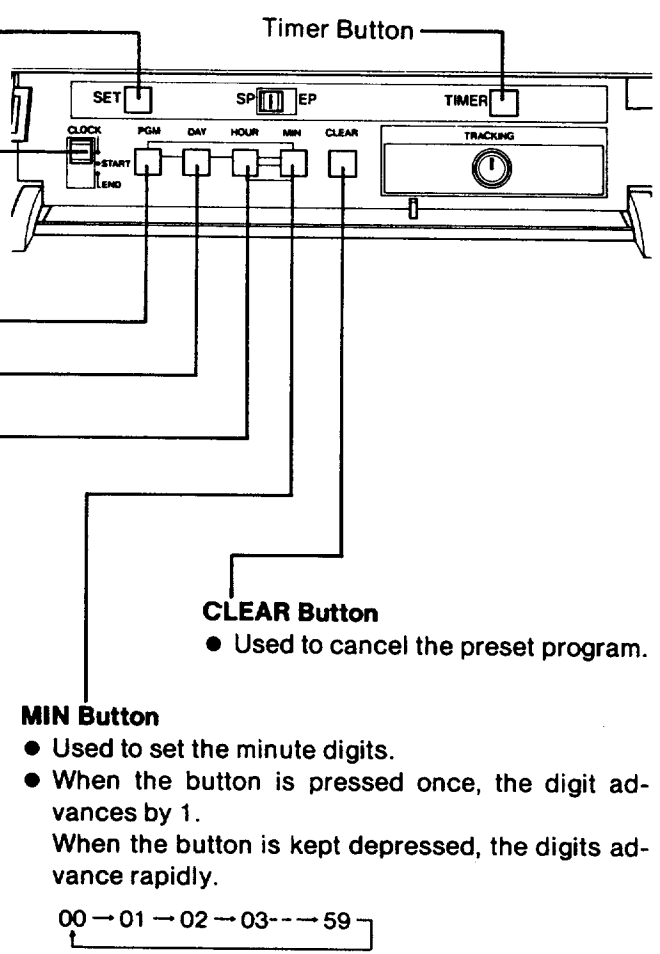
- Used to specify the program number 1-4.

DAY Button

- Used to set the day of the week.
- When the button is pressed once, the day of the week advances by one. When the button is kept depressed, the days advance rapidly.

<Example>

One day of the week; "SU"
 Same day of every week; "WEEKLY SU"
 Everyday; "SU. MO. TU. . . SA"

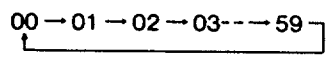


CLEAR Button

- Used to cancel the preset program.

MIN Button

- Used to set the minute digits.
- When the button is pressed once, the digit advances by 1.
When the button is kept depressed, the digits advance rapidly.



HOUR Button

- Used to set the hours.
- When the button is pressed once, the digit advances by 1.
When the button is kept depressed, the digits advance rapidly.

SETTING THE PROGRAMMABLE TIMER

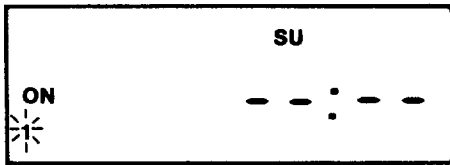
- Confirm the present time. If the present time is not correct, set it again.
- Press the POWER button on.
- Insert the cassette (Check that the cassette safety tab has not been removed.)
- When setting the programmable timer, be careful not to overlap recording time zone.
- Preset desired programs as follows.

- 1 Set the Timer Selector switch to START.
- 2 Specify the program number 1—with the "PGM" button.
- 3 Select the program you want to see with the Channel Selector buttons.
- 4 Set the day of the week, the hour and minutes of recording on time (SU → MO → - - - - → SA → WEEKLY SU → WEEKLY MO → - - - - → WEEKLY SA → SU. MO TU. . . SA. SU → - - - -) with "DAY", "HOUR" and "MIN" buttons.
- 5 Set the Timer Selector switch to END.
- 6 Set the end time with "HOUR" and "MIN" buttons.
- 7 To preset more programs repeat steps 1 - 6 . (Max. 4 programs).
- 8 Return the Timer Selector switch to CLOCK.
- 9 Press the TIMER button.

Timer recording

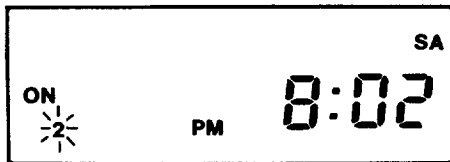
Example: To set channel 6 on Saturday from PM 8:02 to PM 9:45 as program 2. (Present day/time, Tuesday, AM 8:21.)

- (1) Set the Timer Selector switch to START.



(When timer is not set to program 1)

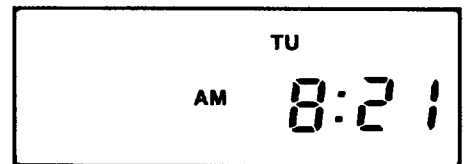
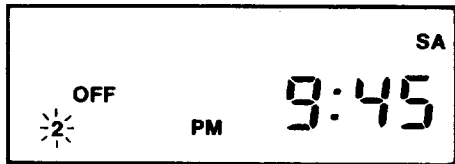
- (2) Set the program number "2"
- (3) Set the recording channel "6"
- (4) Set the day of the week "SA"
- (5) Set the timer on hour "PM 8"
- (6) Set the timer on minute "02"



(7) Set the Timer Selector switch to END.

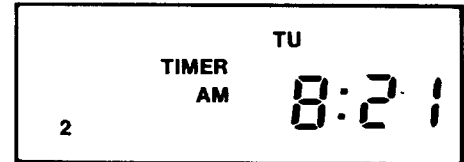
(8) Set the timer off hour "PM 9"

(9) Set the timer off minute "45"



(10) Set the Timer Selector switch to CLOCK.

The display returns to the present time display and the program number goes off.



Note: Timer advances during setting.

Press the **TIMER** button to end the timer setting.

TIMER is displayed and the power indicator goes off.

Notes:

1. When no cassette is loaded or the tab of the cassette has been removed, timer recording is not possible. When no cassette is loaded, error is displayed at the first digit of the timer when the **TIMER** button is pressed. When the safety tab of the cassette has been removed, the cassette will be rejected automatically.
2. During timer recording, the preset contents (program number, channel, day of the week of timer on/off time) cannot be changed.

To check the timer setting

(1) Set the Timer Selector switch to START.

(2) Press the "PGM" button to display the program number to be checked "2"

The display shows the preset timer on time and channel "PM 8:02" and "6"

(3) Set the Timer Selector switch to END.

The display shows the preset timer off time "PM 9:45"

(4) Set the Timer Selector switch to CLOCK.

To change or cancel the timer setting

(1) Set the Timer Selector switch to START.

(2) Press the "PGM" button to display the program number to be changed or cancelled.

(3) Press the "CLEAR" button. The timer on/off time and channel are erased.

Note:

- The timer setting can be cancelled only when the Timer Selector switch is set to START.

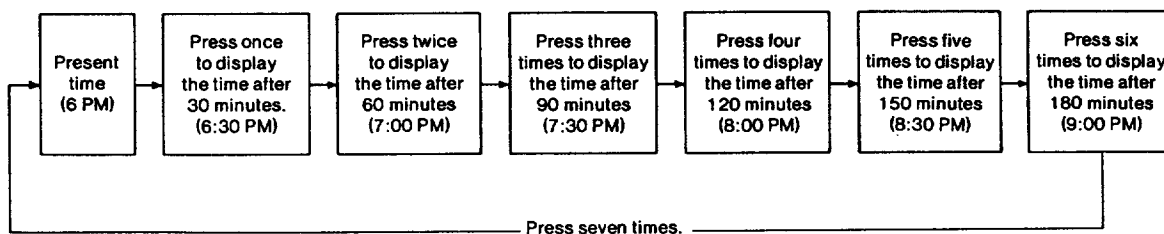
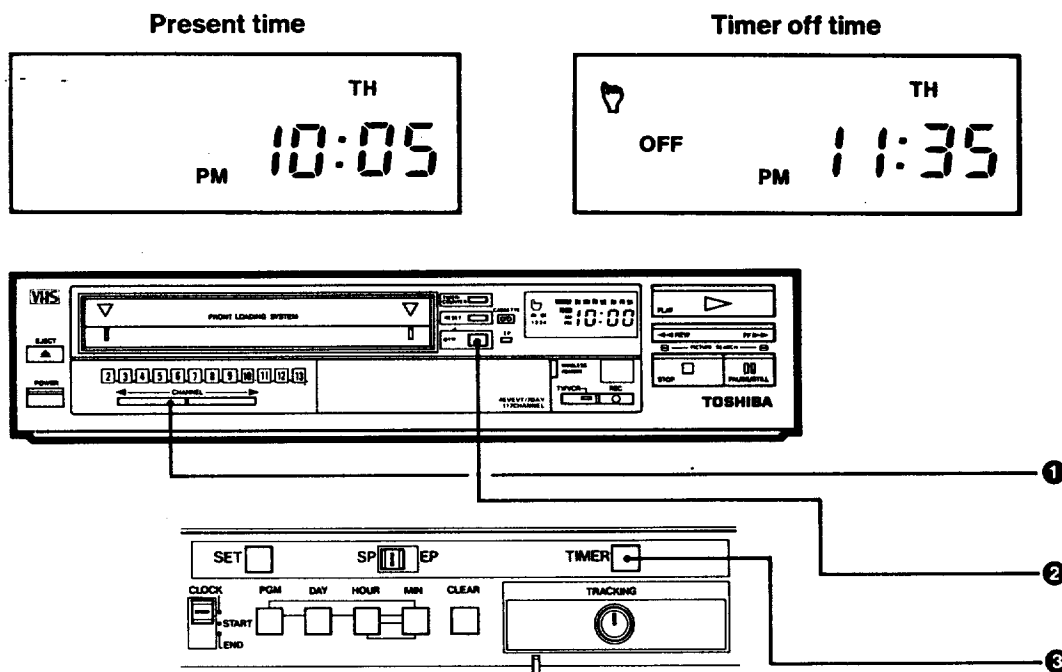
ONE TOUCH TIMER RECORDING

The One Touch timer recording function permits unattended recording for a maximum of 3 hours. Also, each time the OTR button is pressed during normal mode the recording time is extended 30 minutes. When setting the time, timer off time can be set in 30 minute increments after setting the timer off time.

- Notes:**
- Thirty minutes are added every time the OTR button is pressed for up to 3 hours (six times). The one touch time can only be set in 30-minute units. When the OTR button is pressed several times, or the OTR button is switched to the timer button, press the TIMER button within 9 seconds.
 - One touch timer operation is possible only when power is supplied and the Timer Selector switch is set to CLOCK.

Example: To record channel 4 starting from now for 1-1/2 hours. (Present day/time, Thursday, PM 10:05)

- Select channel 4 by pressing channel selector button.
- Press the OTR button to set the recording time.
 - When the button is pressed once: PM 10:35 (30 minutes)
 - When the button is pressed twice: PM 11:05 (1 hour)
 - When the button is pressed three times: PM 11:35 (1 hour 30 minutes)
- Press the TIMER button within 9 seconds.



Example: To set channel 6 starting from Saturday, PM 8:02 for 1 hour as program 1. (Present day/time, Tuesday, AM 8:21)

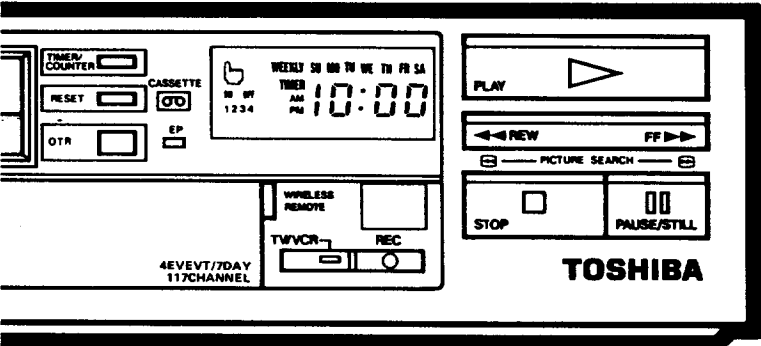
- (1) For the program, channel and timer on time setting, refer to steps (1)–(6) of "Timer recording".
- (2) Set the Timer Selector switch to END.
- (3) Press the OTR button twice.
- (4) Set the Timer Selector switch to CLOCK.
- (5) Press the TIMER button to complete the timer setting.
"TIMER" indicator lights.

Note:
When the OTR button is pressed once, the time increases by 30 minutes.
30 min → 60 min → 90 min → 120 min → 150 min → 180 min ... →

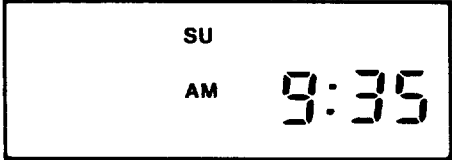
Error indication
When the TIMER button is pressed without setting the timer on/off time, or no cassette is loaded, the "E" indicator lights (when the TIMER button is pressed).



TIMER/COUNTER display: The indication of TIMER/COUNTER display can be changed with TIMER/COUNTER button.



Timer Display



Counter Display

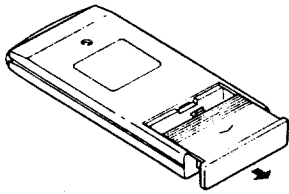


Note:
The counter operates even when it functions as a clock.

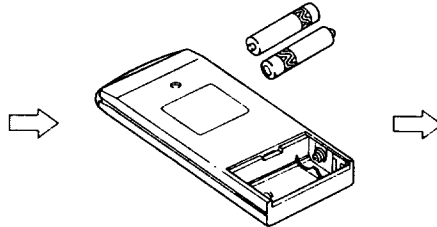
REMOTE CONTROL OPERATION

INSTALLING BATTERIES

How to install batteries in the Remote Control Unit

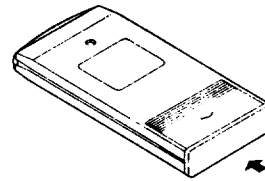


Remove the battery cover on the reverse side of the unit.



Install 2 batteries ("AA" size) into the unit.

Note: Carefully install batteries to match the polarity diagrams.

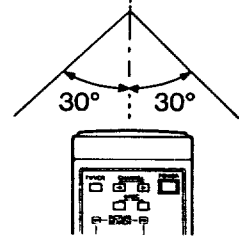
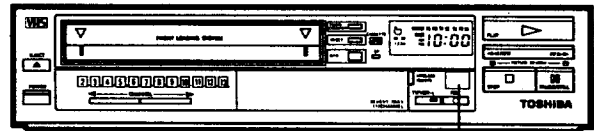


Close the battery cover.

REMOTE CONTROL OPERATION RANGE

The Remote Control must have a clear line of sight to the sensor on the front of the VCR. It must be within an angle of 30° either side of center. The maximum operating distance is about 16 feet.

Point the front end of the Remote Control at the VCR.



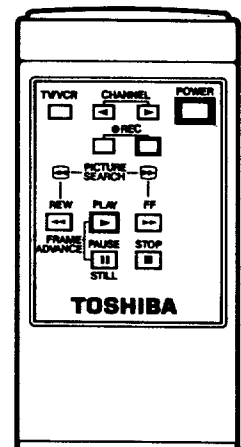
REMOTE CONTROL BUTTON FUNCTIONS

The remote control unit allows remote operation of 15 modes:

PLAYback, STILL picture, SLOW playback (1/120 times normal speed), Frame advance, CUE, REVIEW, Fast Forward, Rewind, PAUSE, STOP, TV/VCR, CHANNEL up, CHANNEL down, REC, and POWER ON/OFF.

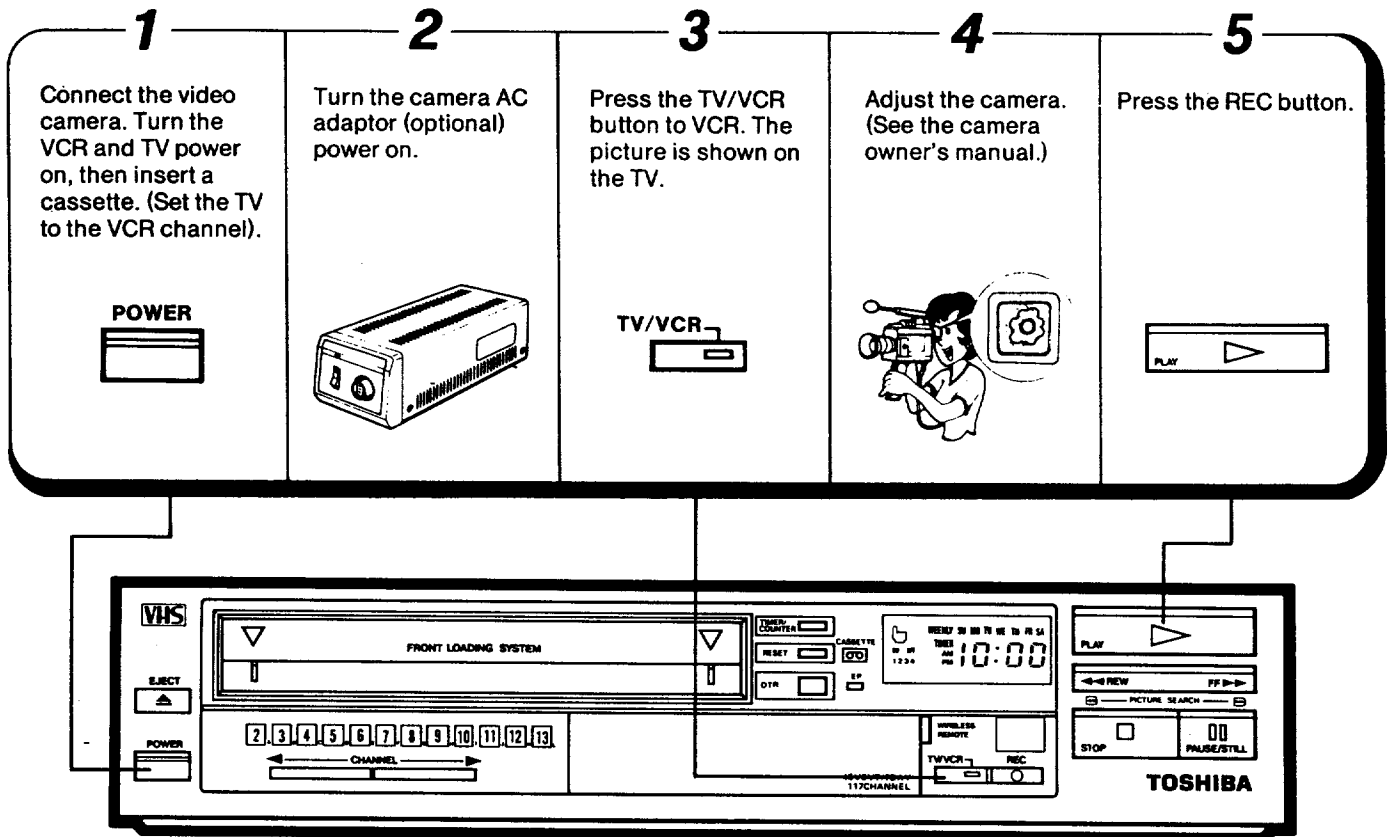
Notes:

1. Remote control cannot be operated in the following conditions:
 - 1) In timer recording mode
 - 2) Without a cassette in the cassette compartmentHowever, TV/VCR, POWER and CHANNEL up/down modes can be operated by remote control.
2. When using remote control unit, press control buttons at intervals of about one second to ensure correct operation.
3. If the remote control unit is not to be used for a long period of time, remove the batteries to avoid possible damage from battery corrosion.
4. Keep unit away from extremely hot or humid places and avoid mechanical shock.



CAMERA RECORDING

Camera recording can be easily performed indoors by following this simple procedure.



● **To stop recording:**

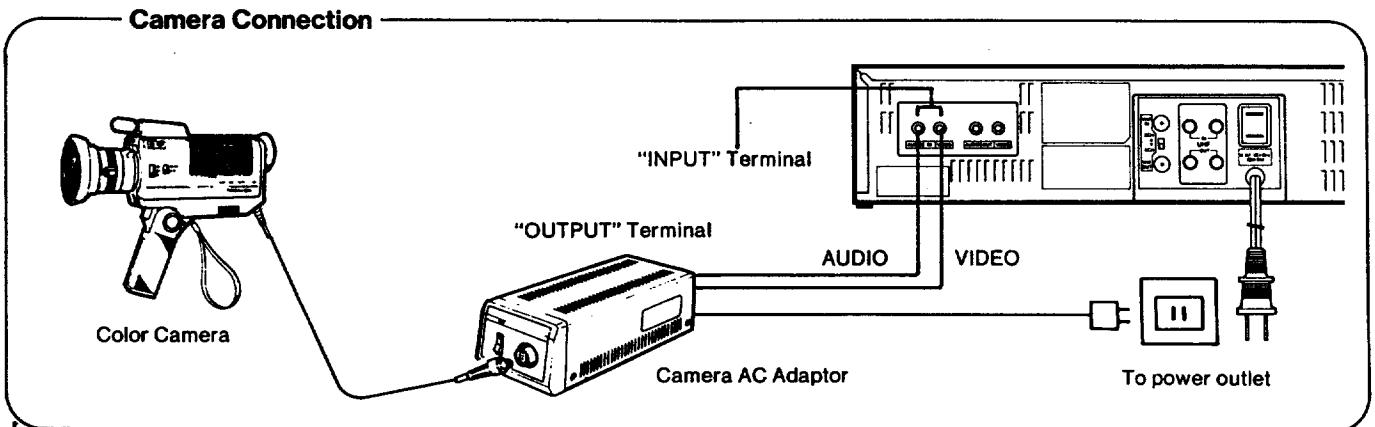
Press the STOP button.
Press the EJECT button to remove the cassette.

● **To stop recording temporarily during video recording:**

Press the PAUSE/STILL button.
Press it again, then recording starts again. If pause continues for about 10 minutes, the VCR stops to protect the cassette tape and internal video recording components.

● **When a "beep" sounds during recording:**

This occurs because the camera's built-in microphone is too close to the TV speaker. Move the camera away from the TV or reduce the TV speaker volume.



BEFORE CALLING SERVICE PERSONNEL

Check the following items before requesting servicing.

| | SYMPTOMS | CAUSE | CORRECTIONS |
|------------------------|--|--|---|
| Power supply | Power supply does not turn on. | <ul style="list-style-type: none"> ● Power supply cord is not plugged in. | <ul style="list-style-type: none"> ● Insert it firmly into the receptacle. |
| | Although the power is on, the VCR does not operate. | <ul style="list-style-type: none"> ● Dew condensed on the head cylinder. ● Cassette is not inserted. | <ul style="list-style-type: none"> ● Turn the power switch off and wait about 2 hours. ● Insert a cassette. |
| Clock timer | Clock does not operate. | <ul style="list-style-type: none"> ● A power failure has occurred. | <ul style="list-style-type: none"> ● Reset the clock. |
| | Preset cannot be performed. | <ul style="list-style-type: none"> ● Preset time is not set correctly. | <ul style="list-style-type: none"> ● Set the correct time first. |
| TV reception | TV picture does not appear. | <ul style="list-style-type: none"> ● The TV channel is not adjusted correctly for the VCR. ● VCR channel setting is not correct. ● The antenna cable is disconnected. ● The TV signal is weak. ● The VCR power cord is unplugged. | <ul style="list-style-type: none"> ● Adjust the TV fine adjustment knob. ● Set the channel correctly. (Ch 3 or Ch 4). ● Reconnect. ● Adjust the antenna direction or use an optional antenna booster. ● Insert it firmly into the receptacle. |
| Recording and playback | Picture does not appear on the TV during recording and playback. | <ul style="list-style-type: none"> ● TV/VCR button is not set correctly. ● TV channel is not set for the VCR channel. ● A connecting cord is connected to the video input terminal. | <ul style="list-style-type: none"> ● Press the TV/VCR button. (The lamp lights on.) ● Set it to a VCR channel (Ch 3 or Ch 4). ● Unplug the connecting cord during TV program recording. |
| | Video recording cannot be performed. | <ul style="list-style-type: none"> ● Cassette safety tab is broken. | <ul style="list-style-type: none"> ● Use a video cassette with a safety tab or place cellophane tape over the hole where the safety tab is broken. |
| | Poor VCR picture | <ul style="list-style-type: none"> ● The VCR channel is not set correctly. ● The video tape was recorded on another VCR. | <ul style="list-style-type: none"> ● Adjust the TV fine adjustment knob. ● Adjust with the tracking knob. |
| | Timer recording cannot be performed. | <ul style="list-style-type: none"> ● Timer preset is not correct. ● Cassette is not inserted. ● Cassette safety tab is broken. ● A power failure occurred. | <ul style="list-style-type: none"> ● Perform presetting again by referring to pages 7, 14. ● Insert a cassette. ● Cover the safety tab hole or use another cassette. ● If the clock is flashing "SU AM 12:00", this means that a power interruption occurred. |
| Others | Cassette is ejected soon after insertion. | <ul style="list-style-type: none"> ● The safety function that protects the tape and VCR is activated. | <ul style="list-style-type: none"> ● Remove cassette and reinsert it correctly. |
| | Cassette cannot be inserted. | <ul style="list-style-type: none"> ● The power switch is off. ● Cassette was inserted just after pressing the EJECT button and the cassette was ejected. | <ul style="list-style-type: none"> ● Turn the power switch on. ● Take the cassette out, then insert it again. |
| Remote controller | The remote controller does not operate. | <ul style="list-style-type: none"> ● The battery is exhausted. ● The remote controller faces a wrong direction. ● A cassette is not loaded. | <ul style="list-style-type: none"> ● Replace with a new battery. ● Within 30° ● Load a cassette. |

SPECIFICATIONS

| | |
|--------------------------------|---|
| Power Supply | AC 120V ± 10% 60 Hz |
| Power consumption | 37 W (8 W with power off) |
| External dimensions | 428W × 95H × 375D mm |
| Weight | 7.8 kg |
| Channels received | VHF: Channels 2 to 13, A ₂ , A ₁ , A to I UHF: Channels 14 to 83, CATV: Channels J to W, AA to JJ |
| Antenna input/output terminals | VHF: 75 ohm F type connector, UHF: 300 ohm |
| Signal system | Standard NTSC |
| Recording/Playback system | Recording: VHS format (SP, EP)/Playback: VHS format (SP, LP, EP) |
| Cassette | Video cassette with VHS mark |
| Tape speed | EP: 1.11 cm/second, SP: 3.34 cm/second |
| Video record/playback time | EP: 480 minutes, SP: 160 minutes (When T-160 video cassette is used.) |
| Fast forward/rewind time | Within 5 minutes (When T-120 video cassette is used.) |
| Video input | 1Vp-p, 75 ohm, unbalanced, negative sync, pin jack |
| Video output | 1Vp-p, 75 ohm, unbalanced, negative sync, pin jack |
| Audio input | -10dBs (245 mV) 47k ohm pin jack |
| Audio output | -7dBs (346 mV) 10k ohm pin jack |
| Utilization conditions | Temperature: 41°F to 104°F, Humidity: less than 85% RH |
| VHF output | Channel 3 or 4 |
| Time display | 12 hour digital display |
| Time precision | Synchronized with the AC power frequency (automatic 50/60 Hz selection). |
| Timer setting | Video recording, 7 days, 4 programs. |
| Remote Control Unit | 11 key: 15 modes. Infrared Remote Control Operation |

Moisture Condensation

- If you pour a cold liquid into a glass, water vapour in the air will condense on the surface of the glass. This is called moisture condensation.
- Moisture condensation on the cylinder, one of the most crucial parts of the video recorder, will cause damage to the tape.
- Moisture in the air will condense on the recorder when you move it from a cold place to a warm place, after heating a cold room or under extremely humid conditions.
- This recorder is equipped with a moisture condensation prevention circuit which automatically heats the head cylinder according to the ambient temperature. This circuit operates when the unit is plugged into an AC outlet. (Power switch is off position.)
- The moisture condensation prevention circuit consumes only a slight amount of power. However, if for some reason you are not using the recorder for a long period of time, it is advisable to remove the power cord from the AC outlet.
- Since the moisture condensation prevention circuit cannot evaporate existing moisture condensation immediately after the power cord has been plugged into the AC outlet, you must allow for about two hours if the recorder is to be used in such areas as would occasion moisture condensation.

— MEMO —

WARRANTY: Refer to warranty card concerning warranty.

TOSHIBA SERVICE PROCEDURE

IN THE CONTINENTAL UNITED STATES...

Should your unit require service, CALL



for the nearest TOSHIBA Authorized Service Station.
Please present your bill of sale to the Authorized Service Station when applying for warranty service. If service is not available in your local area, you are to contact TOSHIBA Service Centers listed on the right page for further information, or carefully pack the product (preferably in the original carton) and ship the product prepaid and insured to the most convenient TOSHIBA Service Center.

Toshiba America, Inc.
Service Center

EAST

82 Totowa Road
Wayne, New Jersey 07470
Phone Number:
(201) 628-8000

WEST

19500 South Vermont Ave.
Torrance, Cal. 90502
Phone Number:
(213) 538-9960
(213) 770-3300

SOUTHWEST

3225 East Carpenter Freeway
Irving, Texas 75062
Phone Number:
(214) 438-8223

MIDWEST

2900 MacArthur Blvd.
Northbrook, Ill 60062
Phone Number:
(312) 564-1200

IN HAWAII...

Toshiba Hawaii Inc.
Service Department
327 Kamakee Street,
Honolulu, Hawaii 96814
Phone Number:
(808) 521-5377

TOSHIBA AMERICA, INC.

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BRANCH OFFICE/CHICAGO: 2900 MACARTHUR BOULEVARD, NORTHBROOK, ILLINOIS 60062, PHONE: (312) 564-1200

LOS ANGELES: 19500 SOUTH VERMONT AVE., TORRANCE, CALIFORNIA 90502, PHONE: (213) 770-3300

TOSHIBA HAWAII, INC.

HEAD OFFICE/327 KAMAKEE STREET, HONOLULU, HAWAII 96814, U.S.A., PHONE: (808) 521-5377

SERVICE CENTER/327 KAMAKEE STREET, HONOLULU, HAWAII 96814, U.S.A., PHONE (808) 521-5377

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