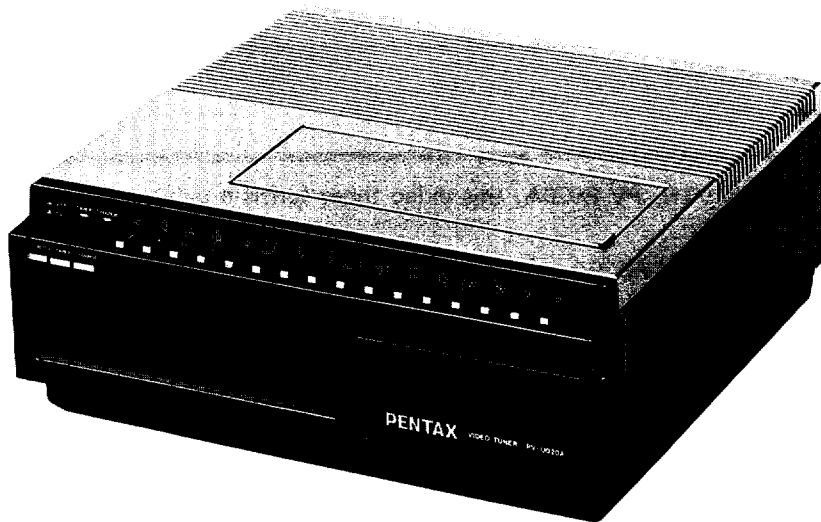


PENTAX

VIDEO TUNER

MODEL PV-U020A

INSTRUCTION MANUAL



WARNING: TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CONGRATULATIONS!

You are now a proud owner of a Pentax Video Tuner. Please read this instruction manual carefully before use and refer to it if any difficulties arise.

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FEATURES

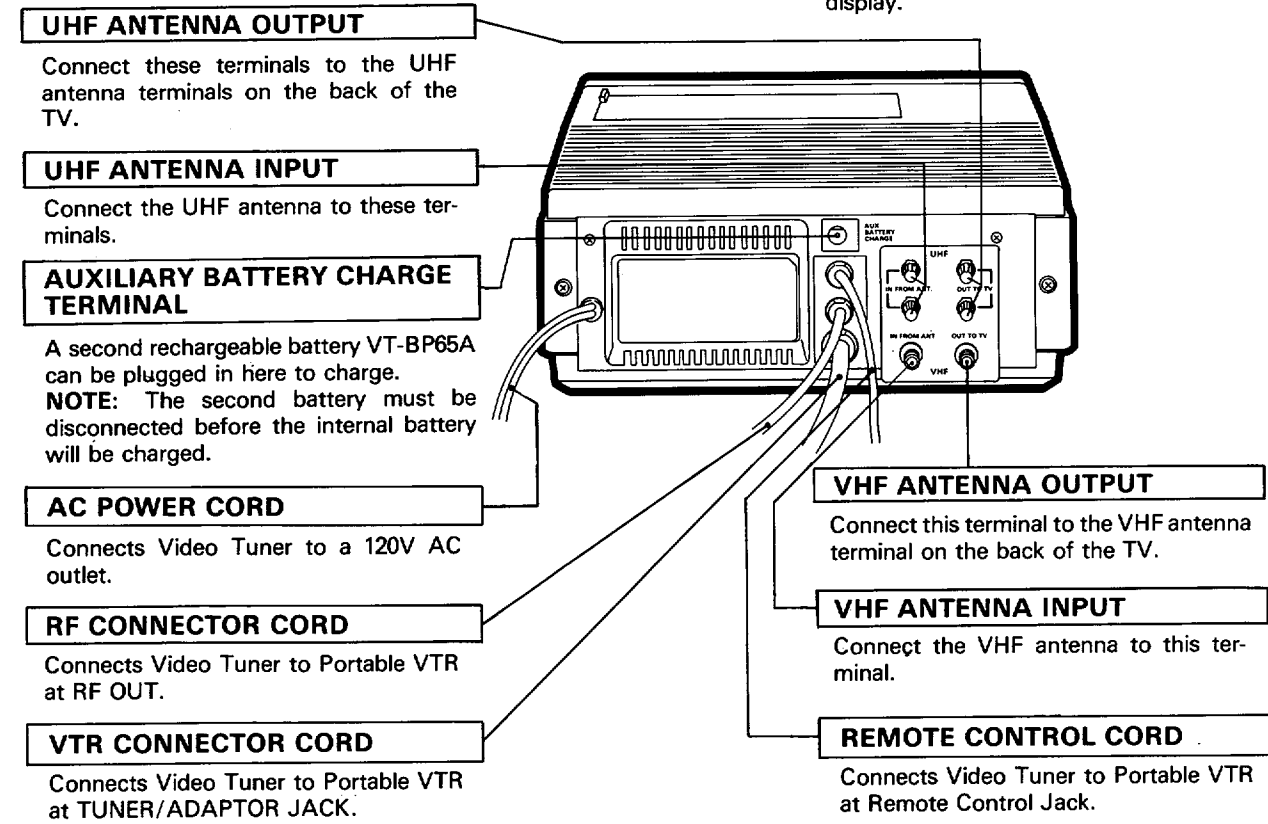
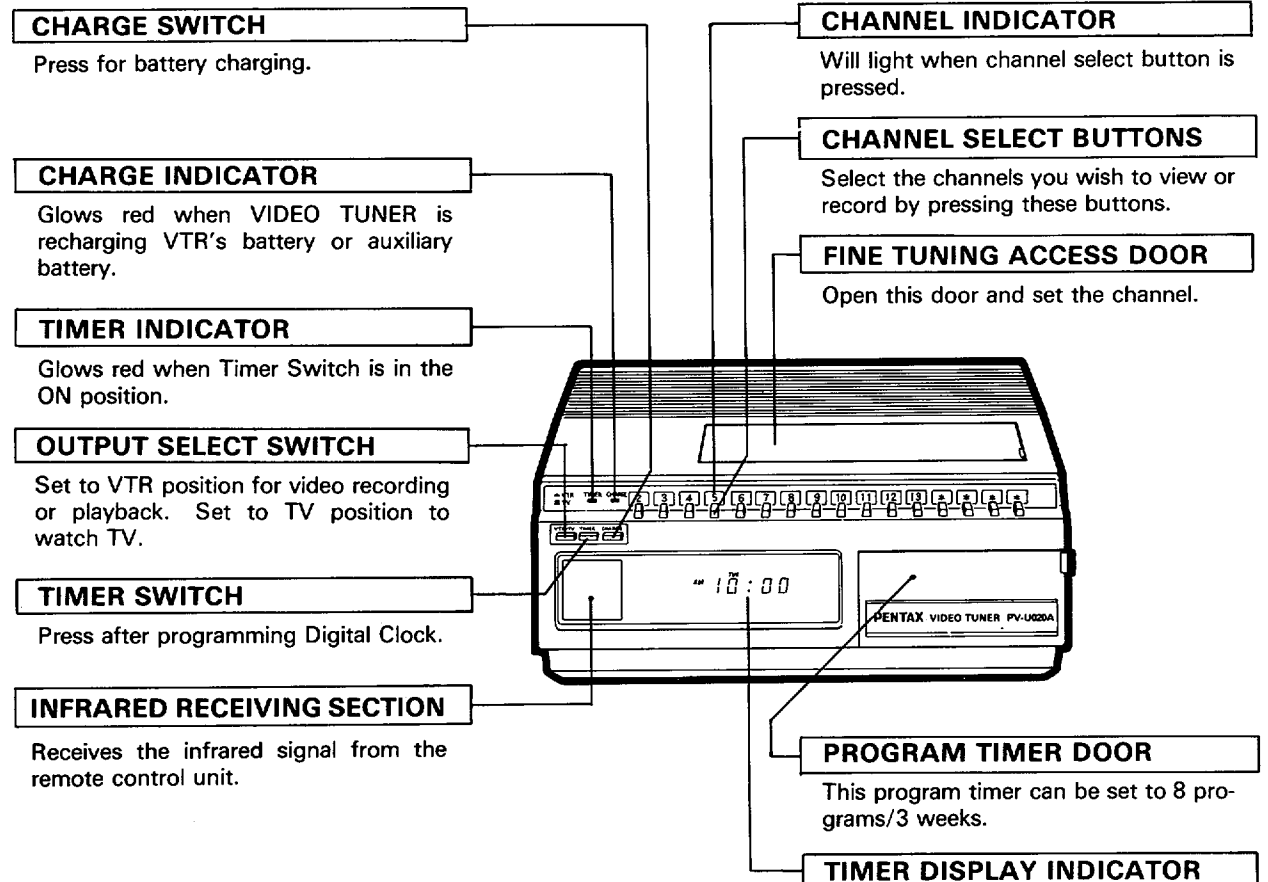
When used with portable VTR, PV-R020A, this video tuner forms a video recording/playback system for operation at home.

- *Easy connection with PV-R020A portable VTR using connection cords*
- *Can be used as AC adaptor for the portable VTR*
- *Can be used as an exclusive charger for battery pack VT-BP65A built in the portable VTR*
- *Includes CATV System Tuning (A - W)*
- *Unattended recording is possible when used in combination with the portable VTR*
- *16-channel electronic tuner*
- *Setting 8 programs/3 weeks is possible with built in program timer*
- *Program Memory back-up feature against power failure*

PRECAUTIONS

- Do not place Portable VTR on the Video Tuner.
- Avoid extreme heat.
- Avoid extreme moisture and dust.
- Avoid electrical shock.
- Avoid places subject to strong vibrations.
- Unplug the AC cord when not in use for prolonged period of time.
- Avoid use near magnetic field.
- Do not block the ventilation holes at the top and bottom with newspapers or cushions. Do not place the unit on a carpet because this can block the ventilation holes.
- Install the unit horizontally.

DESCRIPTION OF VIDEO TUNER



ANTENNA CONNECTION

There are 2 types of TV broadcasts, VHF and UHF.

There are areas where ① only VHF TV broadcast can be received, ② only UHF TV broadcast can be received and ③ both VHF and UHF TV broadcasts can be received.

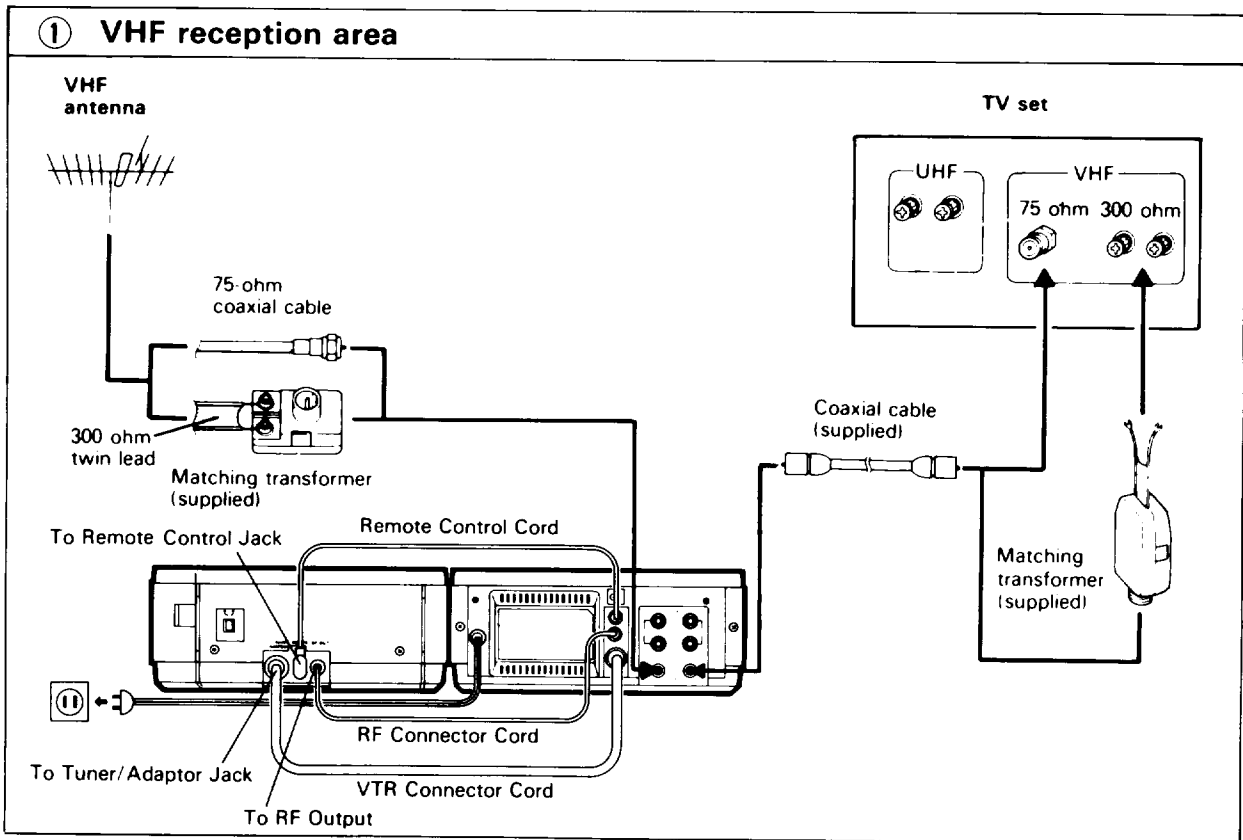
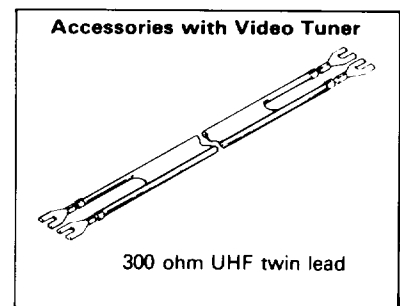
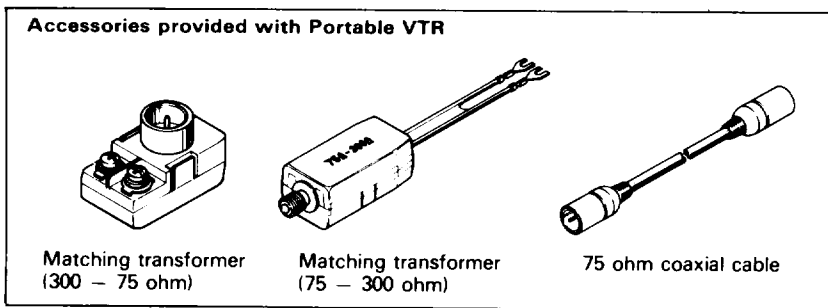
There are various types of antenna hook-ups. Use the correct one, referring to the following diagrams. At first, in order to connect your Video Tuner and Portable VTR to your TV for recording and playback, it will be necessary to attach your antenna to your Video Tuner. Then you must connect your Video Tuner to your Television and VTR. Your Video Tuner and Portable VTR come with the necessary connectors and adaptors for most types of VTR installation.

If your television is used on a cable system, special installation procedures may be required. We suggest you contact your dealer, cable company or local Pentax Service Center for assistance. Installation is not covered by the Limited Warranty.

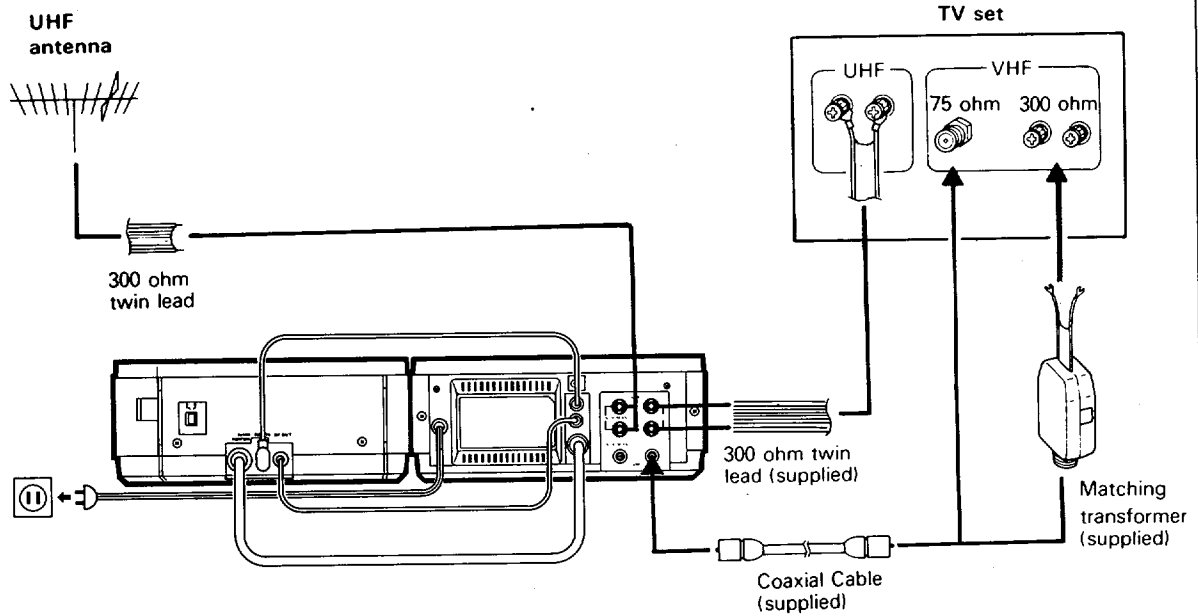
If you want to attach your Video Tuner to Portable TV with "rabbit ears" (dipole antenna), you must disconnect the "rabbit ear" leads from the antenna input terminal on the TV. It will be necessary to extend these leads so they can be attached to your Video Tuner. We recommend an outside antenna.

• INSTALLATION ACCESSORIES

These Matching transformers and connector cables come with your Video Tuner and Portable VTR. You will need one or more of them depending on the kind of antenna you use.

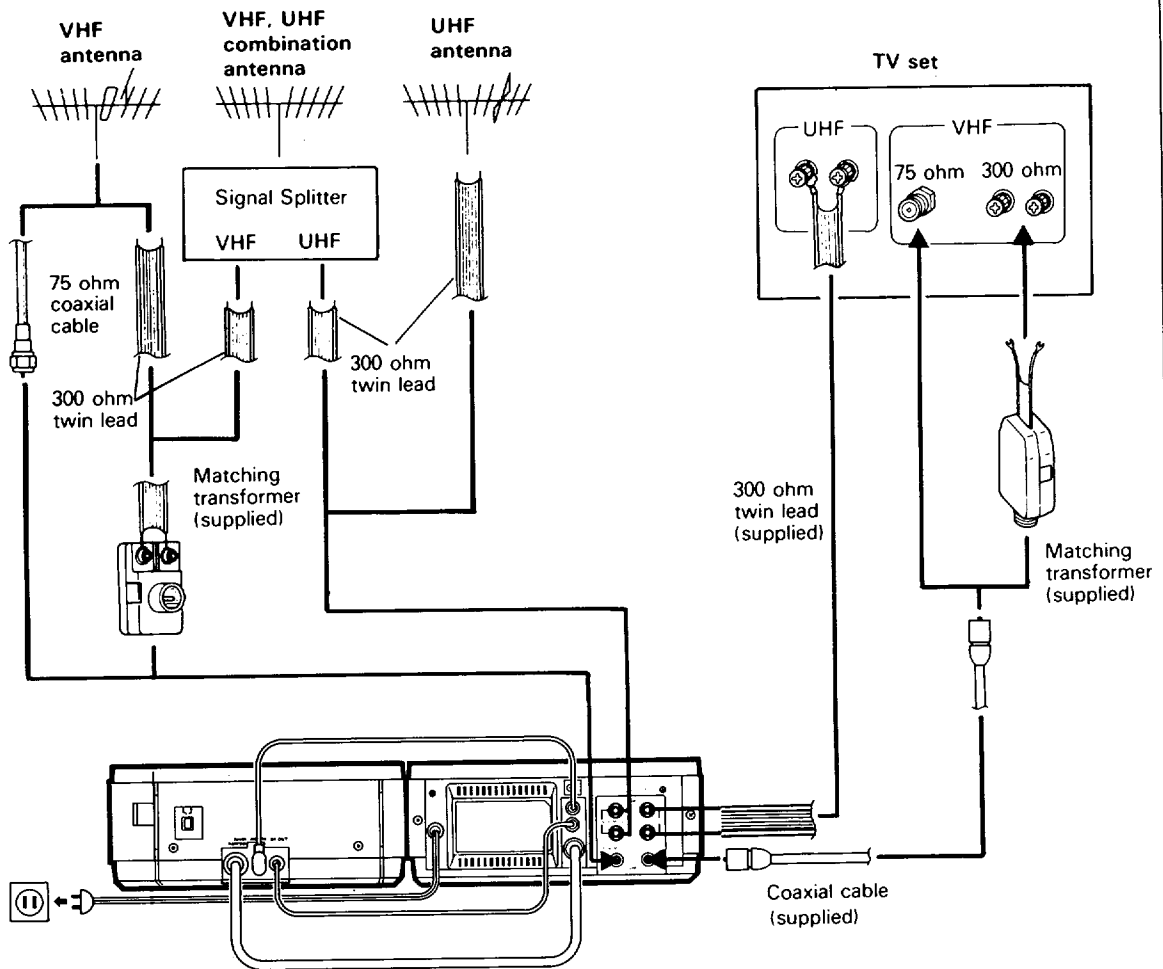


② UHF reception area



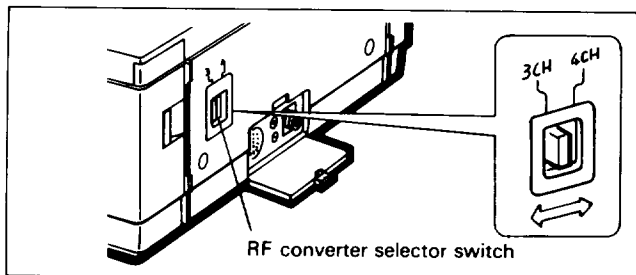
Note: It is necessary to connect coaxial cable to VHF antenna terminals.

③ Both VHF and UHF reception area



DESCRIPTION OF RF CONVERTER (Portable VTR)

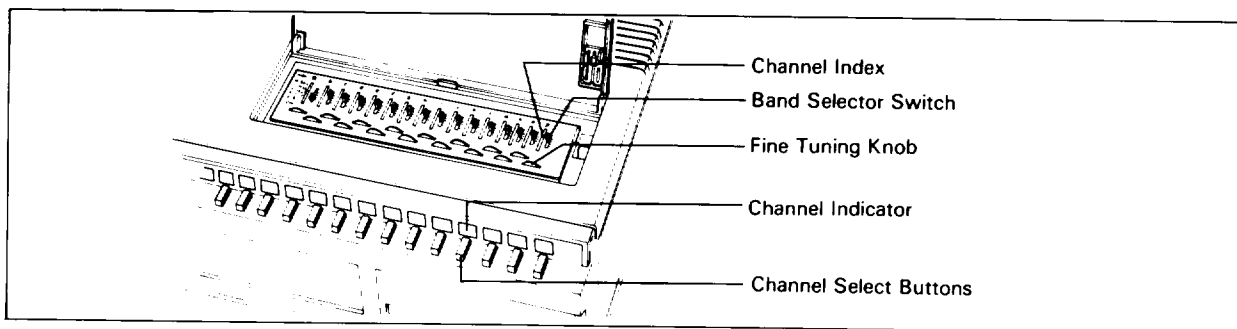
The RF converter changes the video and audio signals from the tuner or tape playback, to standard television broadcast signal on channel 3 or 4. To obtain video recorder output on either channel 3 or 4, set the RF converter selector switch to whichever channel is unused in your area as follows:



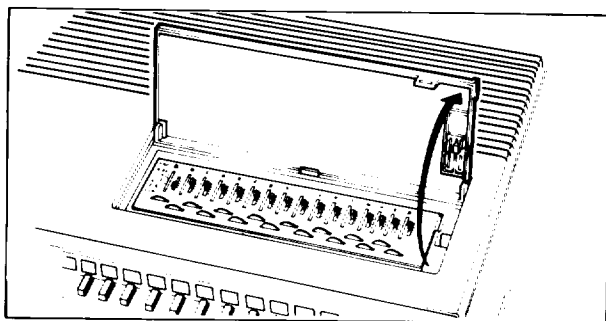
Select RF converter selector switch (located on the rear of Portable VTR) to CH3 or CH4 channel (unused channel).

OPERATING YOUR VIDEO TUNER AND PORTABLE VTR

- 1 Make antenna connections from your antenna to your Video Tuner, and from the Video Tuner to your TV.
- 2 Connect the Video Tuner to Portable VTR.
- 3 Connect the power cord on the Video Tuner to an unswitched power outlet.
- 4 Turn on the TV and VTR.
- 5 Set the TV to Channel 3 (or 4).
- 6 Set the Video Tuner output selector switch to the "VTR" position.
- 7 Set the RF converter switch of VTR to channel 3 (or 4).
- 8 Set the Video Tuner channel select buttons to one of the channels used in your area. The Video Tuner was preset for the channels shown in the Channel Indicator window.
- 9 The TV channel selected by the Video Tuner should now be shown on the TV. If so, fine tune the TV for the best picture.
Then select other Channel Select Buttons on the Video Tuner for the channels that are active in your area and touch up the TV or Video Tuner fine tuning for the best picture.
- 10 The VTR is now ready to begin recording and play when the tape is inserted. If you wish to add channels not factory preset on the Video Tuner, use the procedure which follows:



Adjustment of built in television tuner



- 1 Open the Fine Tuning Access Door.

NOTE:

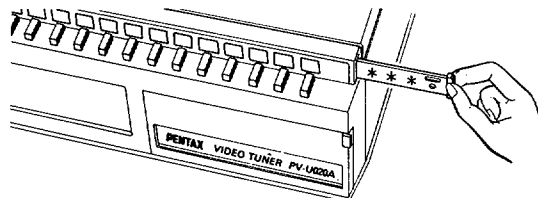
When the door is opened, AFS (automatic fine setting) is disengaged.

- 2 Press the channel selector button for the channel to be changed. (Check that the indicator above the channel select button lights up.)

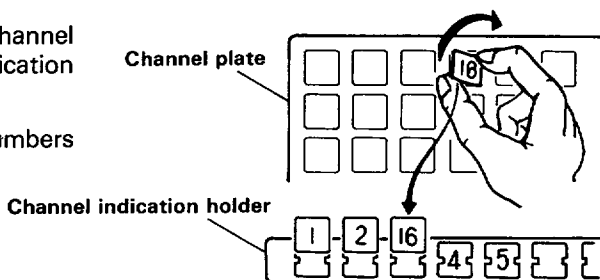
- ③ Move the Band Selector switch and set as follows:

Channel to be set	Position of Band Selector switch
Channels VHF 2— 6	V (L) Towards you
Channels VHF A—I, 7—13	V (M.H)
Channels J—W	V (S)
Channels UHF 14—83	UHF Away from you

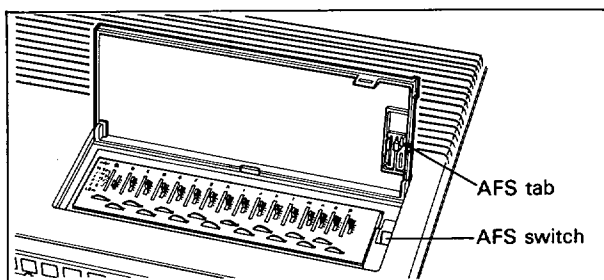
- ④ Rotate Fine Tuning Knob corresponding with channel select button being pressed to the desired position, referring to the monitored picture on TV.
- ⑤ Close the Fine Tuning Access Door. Now, TV set and Video Tuner are tuned correctly when a clear picture can be received after the above procedure has been performed.
- ⑥ Pull out the channel indication holder to remove the old channel numbers.



- ⑦ Tear off the required number tag from the channel plate provided, and insert it into the channel indication holder.
- ⑧ Insert the channel indication holder so that numbers can be seen correctly.



■ AFS Switch



In case of extreme interference or a very weak signal, turn off AFS by placing the AFS tab in "OFF" position. Then fine tune for best picture. Do not turn on AFS after fine tuning.

NOTES:

- When the picture of any particular channel cannot be received, adjust the Video Tuner band selector switch and fine tuning knob (STEPS 1—5).
- When the pictures of all channels cannot be received, TV set is not tuned properly, so adjust the TV set by the following procedure. (Turn the AFS off, if the TV has an AFS control.)

A. TV set with mechanical tuner

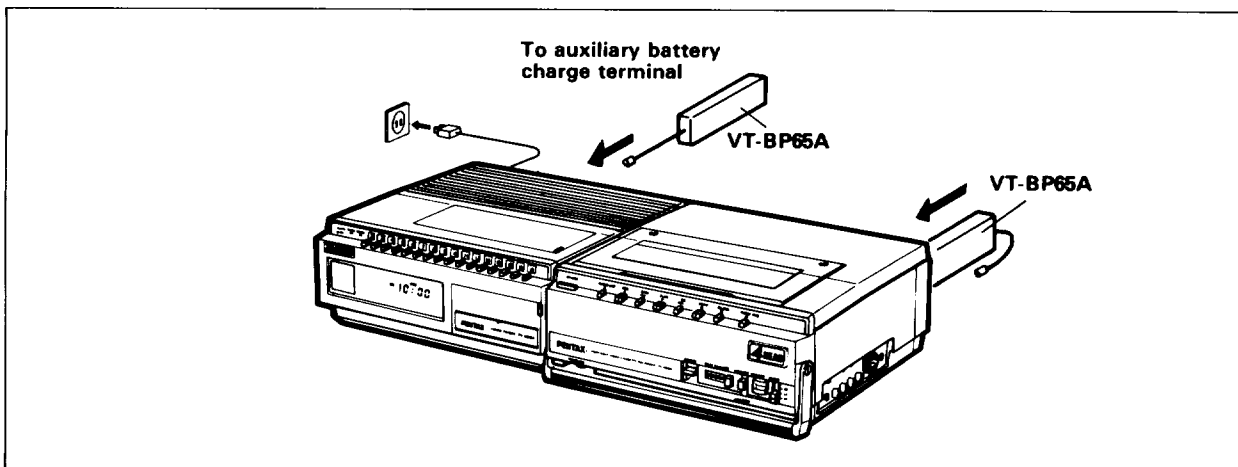
1. Set the TV channel to CH3 or 4 (The same channel as the RF converter of the VTR.)
2. Adjust FINE TUNING so that a clear picture is obtained.

B. TV set with electronic tuner

1. Set the TV channel to a channel position which you do not use.
2. Set the band selector switch to VHF "LOW" or CH2—CH13.
3. Turn the channel preset control to the low (CH2) end of its range, then tune toward the high end until the CH3 (or 4) output is found, then adjust it for the clearest picture. The TV preset will now be set to the same channel as the RF converter of the VTR.
4. Press each of the Video Tuner Channel Select Buttons to verify that all preset channels can be received.

HOW TO CHARGE BATTERY PACK

Video Tuner can be used as a battery charger for VT-BP65A, exclusive battery pack of Portable VTR.



To charge battery pack built in Portable VTR

- 1 Connect Video Tuner with Portable VTR. Refer to page 4 – 5.
 - 2 Insert battery pack into battery compartment. Make sure that the battery plug is plugged in the socket.
 - 3 Turn off power switch of Portable VTR.
 - 4 Press Charge switch to "ON". When charging starts, the charge indicator will go on. When charging is complete, the indicator will go off to indicate that charging is complete.
- Note:** If you turn on power switch of Portable VTR, the charging will stop.

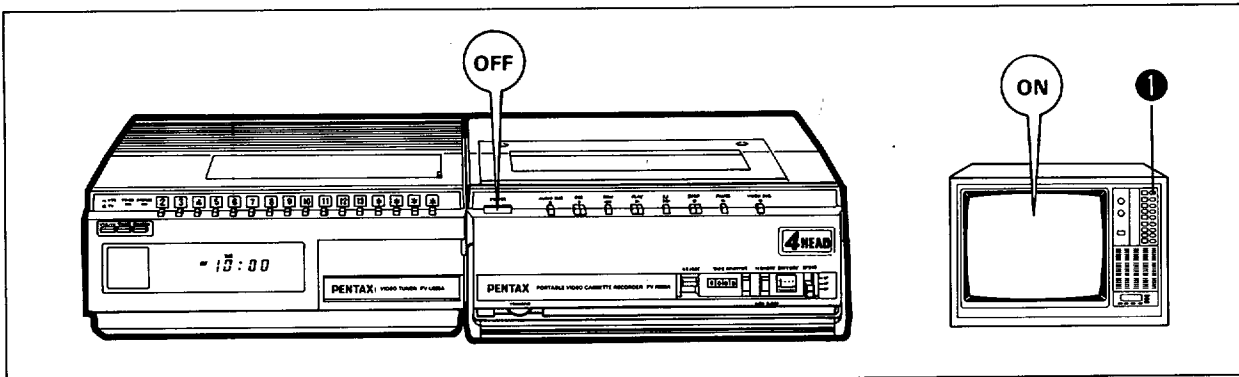
To charge a battery not installed in the VTR

- 1 Connect battery pack to Auxiliary battery charge terminal of Video Tuner.
 - 2 Press Charge switch to "ON". When charging starts, the indicator will go on. When charging is complete, the indicator will go off to indicate that charging is complete.
- Note:**
- Power switch may be "ON" or "OFF".
 - Video Tuner and Portable VTR need not be connected when charging a battery at the auxiliary battery jack.

Note: Exclusive Battery Pack VT-BP65A can be used repeatedly by recharging it, however, its service life depends upon the conditions of use. When used correctly, it can be recharged about 150 times. The following are points to be remembered.

1. Be careful not to short the inside and outside of the plugs.
2. The time it can be used is greatly affected by the temperature. In low temperature, the time it can be used is shortened. For example, the time it can be used at 0°C drops to 50% that at standard temperature (20°C).
3. When 2 battery packs are connected (one in the battery compartment, the other connected to Auxiliary battery charge terminal) simultaneously, the battery pack connected to Auxiliary battery charge terminal will be charged but built in battery pack will not be charged.
4. The time required for charging is approx. 3 – 8 hours.
5. When a worn-out battery pack is charged, the charge indicator may not go off after charging is complete. When such a condition occurs, it may cause over-charging and subsequent trouble, so do not charge for more than 12 hours.
6. Be sure to store the used battery pack after charging it. The battery pack discharges itself when it is not used, so be sure to charge the battery pack once every 6 months.
7. Use the Video Tuner or PV-A020A Adaptor/Charger to charge the battery pack. Using other equipment is dangerous.
8. Charge to top up, even if you only used it for a short time.
9. Power to VTR is "OFF" when battery is connected to auxiliary battery charge jack on Video Tuner.

VIEWING TV ONLY

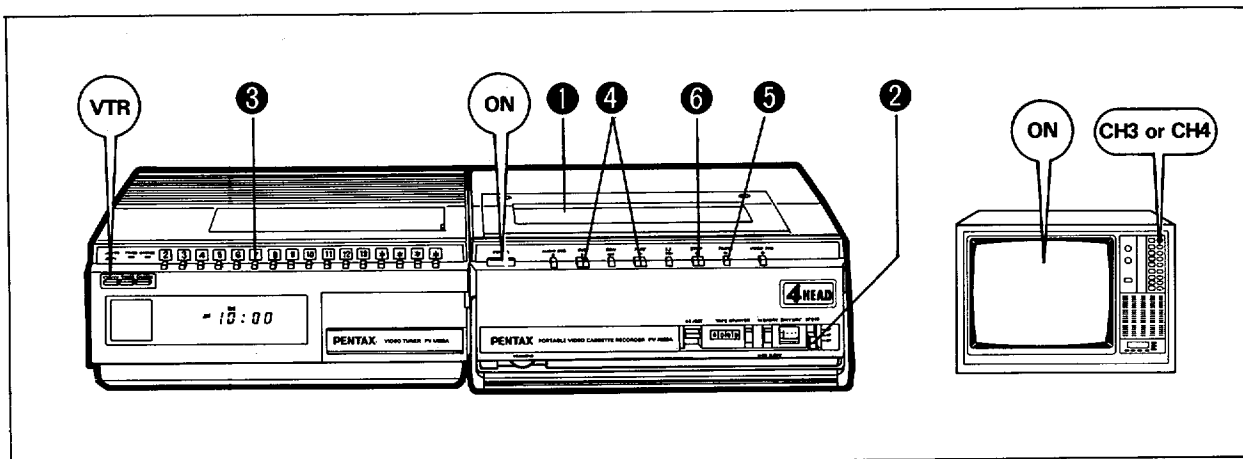


- 1 Set the channel selector to the program you wish to watch.

NOTE:

- When the VTR Power Switch is turned off, the unit automatically reverts to the "TV" mode. The output selector will have no effect.
- Power cord must be plugged in AC outlet.

VIEWING AND RECORDING THE SAME TELEVISION PROGRAM



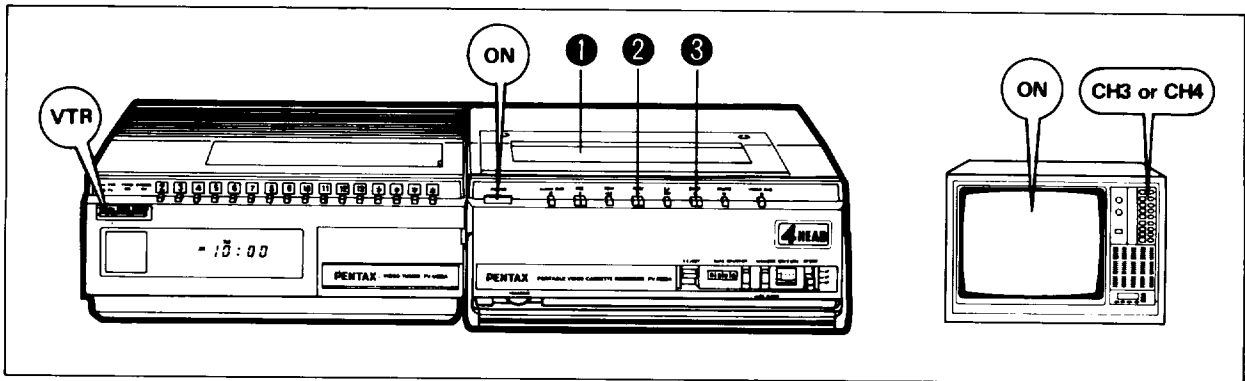
- 1 Insert Cassette.
- 2 Set speed selector on VTR to "EP", "LP" or "SP".
- 3 Select channel to be recorded.
- 4 Press RECORD button and while holding RECORD, press PLAY button.
- 5 Press PAUSE button to stop recording temporarily. Press again to release.
- 6 Press STOP button.

RECORDING ONE PROGRAM WHILE VIEWING ANOTHER

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

- 1 Follow the steps described in item 1 through 4 of the section "VIEWING AND RECORDING THE SAME TELEVISION PROGRAM".
Now recording begins.
- 2 Set output selector switch to "TV".
- 3 Set the TV channel selector to the program you wish to view.
- 4 If you want to stop recording, press STOP button.

PLAYBACK



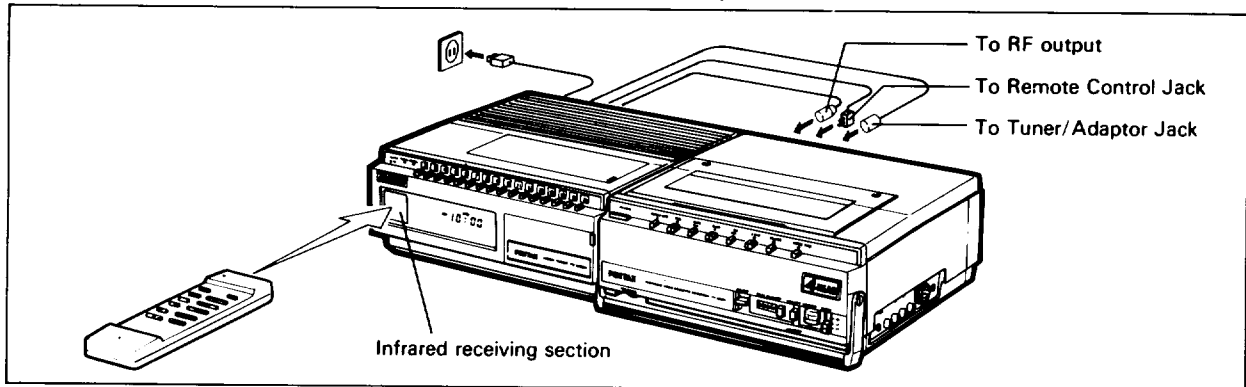
- 1 Insert the cassette.
- 2 Press PLAY button. (Playback speed automatically corresponds with recorded speed.)
- 3 Press STOP button to stop playback.

Note:

- A still picture can be viewed when the PAUSE button is pressed during playback of an EP or SP recorded tape.
- Avoid holding PAUSE button down for more than 10 minutes.

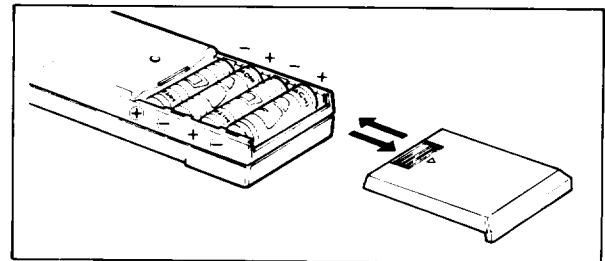
DESCRIPTION OF INFRARED REMOTE CONTROL UNIT

You can operate the VTR from a distance away by using the Infrared Remote Control Unit provided. Each button on the Infrared Remote Control Unit performs the same function as the corresponding button on the VTR — except for the SLOW, FRAME ADV. and CHANNEL buttons. To change channels on the Video Tuner, press the CHANNEL button on the Infrared Remote Control Unit. The Video Tuner channels will change in sequence.



• Before Using

Insert four batteries (1.5V size AA) as shown in the diagram. (Do not confuse (+) and (-).)



• Operation Procedure

- (1) Insert the cassette and press Power Button. Now Remote Control unit is ready to operate.
- (2) You can now operate the VTR by pressing the buttons on the Remote Control unit.
- (3) When you have finished operating the VTR by remote control, press the Power Button on the Remote Control to turn off the VTR.

FRAME ADVANCE BUTTON (SP, EP Mode only) (Remote Control only)

To advance the picture a few frames at a time during playback, press the PAUSE button, then the FRAME ADV button. The picture will be advanced a few frames at a time each time this button is pressed. The frames will be advanced continuously when this button is kept in the depressed position.

To release, press PAUSE button again.

- Note:**
- This function is effective only during the playback of tapes recorded in the SP or EP mode.
 - The playback picture will have some amount of noise in the FRAME ADVANCE mode.
 - Noise area will vary (Between SP and EP modes).

SLOW BUTTON (SP, EP Mode only) (Remote Control only)

Press, then use variable slow control buttons to vary speed from 1/5 normal speed to stopped action in EP mode, or 1/10 normal speed to stopped action in SP mode.

To release press PLAY button.

Note: The playback picture will have some amount of noise in the SLOW mode. Press forward or reverse slow tracking buttons to minimize noise bands that may appear when using the slow, still or frame advance features. You will be able to move the noise band to either the top or bottom of the picture.

VISUAL SEARCH BUTTON (SP, EP Mode only)

This control allows you to view the picture on a recorded tape at high speed in both forward and reverse directions.

Press the PLAY button to play back a tape recorded in SP, EP mode, then press and hold down either VISUAL SEARCH button. Pictures can be viewed at high speed in either forward or reverse direction.

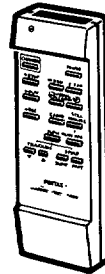
- Note:**
- The VISUAL SEARCH button operates only in playback when the tape has been recorded in the SP, EP modes.
 - Tapes recorded in SP, EP mode is played back at 4 times the ordinary speed (SP) or at 12 times the ordinary speed when VISUAL SEARCH button is pressed during playback.
 - The playback picture will have some amount of noise in the VISUAL SEARCH mode.
(See, **FRAME ADVANCE BUTTON**, Note 2 & 3)

Tapes recorded in SP mode on a machine with only two heads for SP/LP/EP modes, will have wider noise bars during special effects playback than tapes recorded on a machine with only SP mode, or a machine using separate heads for SP and LP/EP modes.

Note:

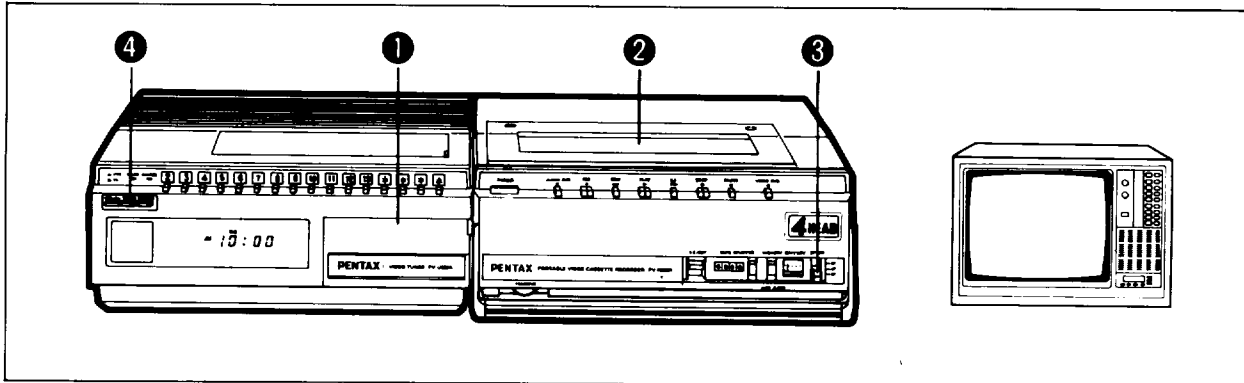
- The infrared rays used for operation travel in a straight line.
When there is an obstacle between the remote control unit and the VTR, operation may not be possible.
- As the batteries are used up, the operation distance is reduced. When operation is not possible or when the distance becomes too small, replace the batteries.
- Remove the batteries from battery compartment when the unit is not to be used for a long time.
- When using the Infrared Remote Control unit to operate the various functions, a slight delay in the reaction time is normal. When depressing the function buttons, please make certain that each function is activated before releasing the buttons.
- Infrared light bounces from nearby objects, so remote operation may be possible when no direct path to the VTR exists. Such operation may not be consistent, so we do not recommend using bounce reflected operation.
- If you have noise band on the TV screen in the Still playback, Slow playback or Frame Advance mode, set the VTR to the Slow playback mode and press the Slow Tracking Control button to minimize the noise band.

It is easier for the VTR to remove the noise band in faster Slow playback modes.



TIMER RECORDING (UNATTENDED RECORDING)

Once you have set the Timer built in Video Tuner for unattended recording, you can forget about it. The Timer will turn your Video Tuner and Portable VTR on and off at the time you set.



- 1 Set the program timer.
"CORRECT TIME", "START TIME", "STOP TIME" etc.
Refer to the "SETTING THE PROGRAM TIMER" on page 13-16.
- 2 Insert the Cassette.
Be sure to check that the record safety tab is not missing. If the record safety tab is missing, recording will not begin.
- 3 Set speed selector to "EP", "LP" or "SP".
- 4 Set Timer Switch to ON. Now recording will begin at start time.

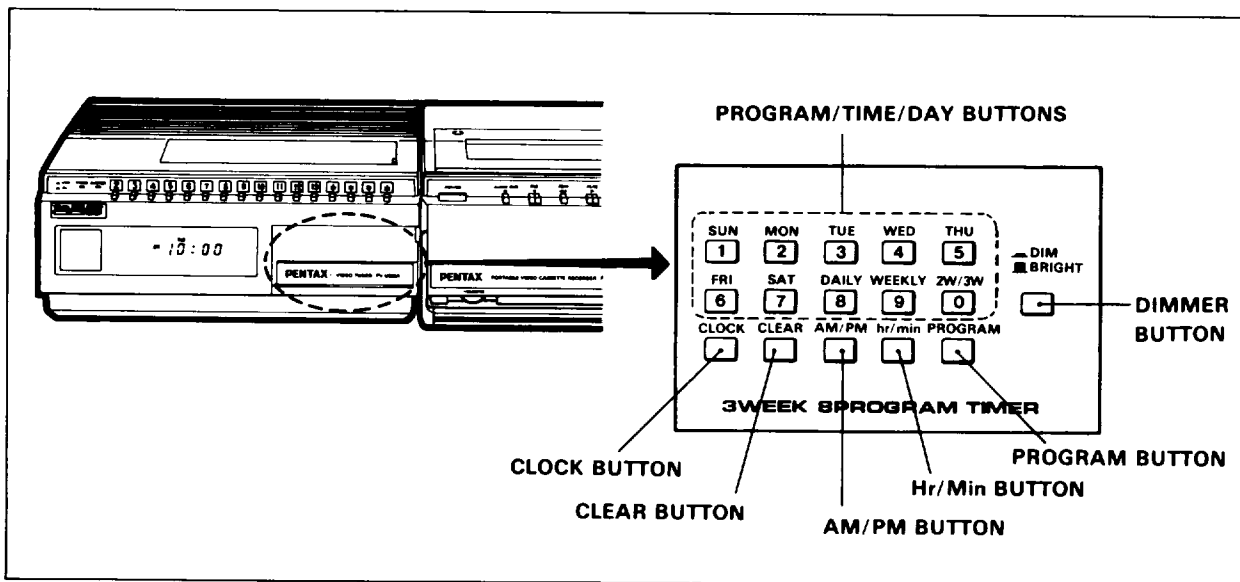
Note:

- It is not necessary to press PLAY and RECORD buttons.
- TV does not have to be on for Timer Recording.
- When Timer Switch is on, your VTR cannot be operated manually.

To monitor program to be recorded

1. Turn on TV and set the channel of your TV to CH3 or CH4 (for your video channel).
2. Turn off Timer Switch of Video Tuner and Turn on Power Switch of the VTR.
3. Set the output selector to "VTR".
4. Follow the steps described in item (1) of the section READING THE PROGRAM TIMER on page 15.
5. After checking the program, turn off TV and set the Timer Switch of the Video Tuner to ON.

PROGRAM TIMER



SETTING THE PROGRAM TIMER

When the AC cord is first connected to AC wall socket or when a power failure continues for about 60 minutes or more, the Timer display flashes AM 12:00.

The brightness of the Timer display can be selected with the Dimmer button.



To pre-set the program timer, input the setting information according to the flashing indication on the Timer display.

Example: When "ON" is flashing, program the start time.

When "OFF" is flashing, program the stop time.

Note: The indications 2w, 3w do not flash.

SETTING THE TIMER CLOCK TO THE CORRECT TIME

(In the example below, the clock is being reset to 10:30 AM, Tuesday).

(1) Press and hold **CLOCK** button while performing steps (2) through (4) below.

(2) Press **TUE** button.

(This sets the clock to "Tuesday".)

(3) Press **AM/PM** button. (This sets the clock to "AM".)

(4) Press the buttons in the following sequence. (10 hours, 30 minutes)

1 **0** **Hr/Min** **3** **0** **Hr/Min**

(5) Release **CLOCK** button.

Now the clock will operate.

TO RECORD ON ONE DAY ONLY FOR ONE TIME FRAME

(In the example below, Program "1" is being set to record Channel 2 on Friday from 9:15 PM to 11:00 PM)

(1) Select the Program in which the timing information is to be stored.

Press **PROGRAM**, then press **1**.

(2) Select the day the VTR is to start.

Press **FRI** button.

(3) Press **AM/PM** button twice. (This sets the clock to "PM".)

(4) Select the time the VTR is to start.

Press the buttons in the following sequence.

9 **Hr/Min** **1** **5** **Hr/Min**

(5) Press **AM/PM** button twice. (This sets the clock to "PM".)

(6) Select the time the VTR is to stop.

Press the buttons in the following sequence.

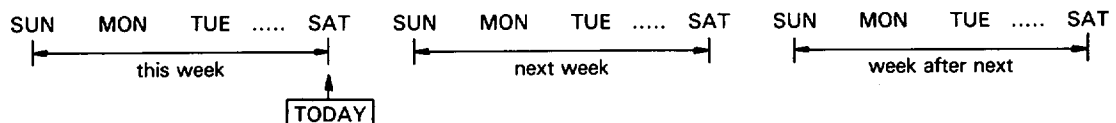
1 **1** **Hr/Min** **0** **0** **Hr/Min**

(7) Select the channel to be recorded.

Press the channel selector button on the front panel.

Now the start time appears on the timer display and after several seconds, the display indication changes to the stop time. After about 8 seconds, display changes automatically to present time.

Note A timer built in this Video Tuner can preset the programs within three weeks. A week in this timer means from SUNDAY to SATURDAY.



Today is SATURDAY and if you want to record the program on SUNDAY (tomorrow), the week indicator should be set to "2W". If the week indicator is not set to "2W" and only the day of the week is set to "SUN", setting is not acceptable.

TO RECORD ON A SPECIFIED DAY AT THE SAME TIME EACH WEEK

(In the example below, Program "2" is being set to record Channel 3 every Saturday from 11:30 AM to 12:05 PM)

- (1) Select the Program in which the timing information is to be stored.
Press **PROGRAM**, then press **2**.
- (2) Select the day the VTR is to start.
Press **WEEKLY**, then press **SAT** button.
- (3) Press **AM/PM** button. (This sets the clock to "AM".)
- (4) Select the time the VTR is to start.
Press the buttons in the following sequence.
1 **1** **Hr/Min** **3** **0** **Hr/Min**
- (5) Press **AM/PM** button twice. (This sets the clock to "PM".)
- (6) Select the time the VTR is to stop.
Press the buttons in the following sequence.
1 **2** **Hr/Min** **0** **5** **Hr/Min**
- (7) Select the channel to be recorded. Press the channel selector button on the front panel.
Now the start time appears on the timer display and after several seconds, the display indication changes to the stop time. After about 8 seconds, display changes automatically to present time.

TO RECORD AT THE SAME TIME EVERY DAY OF THE WEEK

(In the example below, Program "3" is being set to record Channel 3 every day from 7:00 PM to 7:30 PM.)

- (1) Select the Program in which the timing information is to be stored.
Press **PROGRAM**, then press **3**.
- (2) Select the day the VTR is to start.
Press **DAILY** button.
- (3) Press **AM/PM** button twice. (This sets the clock to "PM".)
- (4) Select the time the VTR is to start.
Press the buttons in the following sequence.
7 **Hr/Min** **0** **0** **Hr/Min**
- (5) Press **AM/PM** button twice. (This sets the clock to "PM".)
- (6) Select the time the VTR is to stop.
Press buttons in the following sequence.
7 **Hr/Min** **3** **0** **Hr/Min**
- (7) Select the channel to be recorded. Press the channel selector button on the front panel.
Now the start time appears on the timer display and after several seconds, the display indication changes to the stop time. After about 8 seconds, display changes automatically to present time.

TO RECORD ON ANY DAY THE NEXT WEEK OR THE WEEK AFTER NEXT

(In the example below, Program "1" is being set to record Channel 6 on Wednesday the week after next from 9:15 PM to 11:00 PM.)

- (1) Select the program in which the timing information is to be stored.
Press **PROGRAM**, then press **1**.
- (2) Select the day the VTR is to start.
Press **2W/3W** twice, then press **WED**.
If you want to store timing information in the Program "1" on Wednesday the next week, proceed as follows:
Press **2W/3W**, then press **WED**.
- (3) Operate in the same way as in "TO RECORD ON ONE DAY ONLY FOR ONE TIME FRAME", item (3) – (7), thereafter.

READING THE PROGRAM TIMER

(In the example below, inputs have been made to Program "2" so that it will record Channel 3 on the following Saturday, from 11:30 AM to 12:05 PM.)

- (1) Press **PROGRAM**, then press **2**.

Indicator lights show the channel selected and the day and time the VTR will start.
After several seconds, display indication changes to the stop time.

- (2) After about 8 seconds, display changes automatically to present time.

Note: The picture of the programmed channel is seen on the TV screen.

CLEARING ("ERASING") INFORMATION FROM A PROGRAM

1. TO CLEAR ALL INFORMATION FROM A PROGRAM

(In the example below, all previous inputs are being cleared from Program "2". It had been previously programmed to record Channel 3 on the following Saturday from 11:30 AM to 12:05 PM.)

- (1) Press **PROGRAM**, then press **2**.

The start time will appear on the timer display.

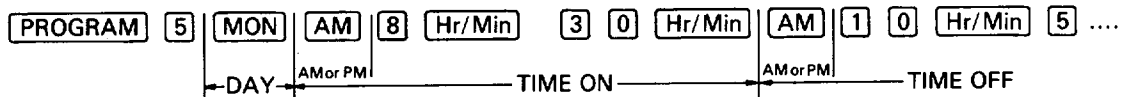
After several seconds display indication changes to the stop time.

- (2) Press **CLEAR** button before display returns to present time.

2. TO CLEAR AN ERROR WHILE PROGRAMMING

- Program timing data can be considered to be grouped into block: "Day", "Time ON", "Time off", & "TV channel". If an error is made while programming a block, press **CLEAR** and begin the block over again.

For example, you are setting Program "5" to start recording at 8:30 AM on Monday, and stop recording at 10:00 AM.



At this point you realize you pressed **5** instead of **0**. You do not have to start at the beginning to correct. Press **CLEAR** and start the "TIME OFF" block again.

- If you want to make a change in Program during a time previously stored in the Program Timer, proceed as follows:
 - a. Press **PROGRAM**, then press **1** through **8** which should be changed.
 - b. Press **CLEAR** button.

This will clear all previously entered information from the affected program and allow you to enter new information.

For example: Suppose Program "1" was previously set to record Channel 2 between 8:30 PM and 10:00 PM on Monday. At 9:10 PM on Monday you decide to change the information stored in Program "1". To do so, proceed as follows:

Press **PROGRAM**, then press **1**.

Press **CLEAR**.

Now all previously stored information in Program "1" has been cleared and new information can be entered.

ADDITIONAL TIMER PROGRAMMING INFORMATION

1. Hours and minutes can be set in single or double digits.

For example, the following procedures are both acceptable to input.

PM 0 7 Hr/Min 0 0 Hr/Min
OR
PM 7 Hr/Min 0 Hr/Min

2. Before setting the program timer, set the clock to the correct present time.

3. If the "TIME ON" is before midnight and the "TIME OFF" is the following day, only the "DAY" for "TIME ON" needs to be entered.
4. When the Start time of two or more programs overlap, the Program that starts first will continue to the programmed "TIME OFF" before the timer changes to the next Program.
For example, Program "3" starts at 9:00 AM and stops at 10:00 AM. If Program "1" is set to start at 9:30 AM, it will not start until 10:00 AM when Program "3" stops.
When the Start times of two or more Programs are the same, the Timer will select the programs in the following priority sequence; 1, 2, 3, 4, 8.
5. If you want to stop recording during "Timer Recording", set the Timer Switch to "OFF", then press stop button.
6. The repeating program such as weekly or daily, etc. is kept memorized after 3 weeks unless the program is otherwise cleared.

CAUTION: Open the Fine Tuning Access Door and insert the pin etc. into the hole at the left corner toward you and push when the indication or operation of the display becomes abnormal for some reason. The display indication will be cleared and reset the timer.

POWER FAILURE COMPENSATION CIRCUIT

The power failure compensation circuit operates when AC cord is connected to AC wall socket. When power failure occurs, the built-in power failure compensation circuit works; the timer display goes off but the clock operation and the previously set program continue operation normally.

When the power is restored, the timer display operates normally again. This compensation circuit operates when the power failure continues for less than approx. 1 hour. When the power failure continues more than that, the Timer display indicator flashes and all previously stored information will be cleared.

Set the present time and the programming again at that time.

Note: The power failure compensation circuit is operated by the built-in rechargeable battery.

The built-in batteries have not been charged when the AC cord is first inserted into the AC socket, so the power failure compensation circuit does not operate. This circuit operates approx. 30 hrs after power is supplied.

Battery is completely discharged when the power compensation is done for 1 hour, so the power compensation circuit does not work again within 30 hrs after power is supplied.

TROUBLESHOOTING GUIDE

PROBLEM	THINGS TO CHECK	SOLUTION
No power	<ul style="list-style-type: none"> • Is the power cord connected? • Is the timer switch "on"? • Is the battery meter in green? 	<ul style="list-style-type: none"> • Connect the power cord to AC outlet. • Make sure timer switch is off. • Battery may be discharged; replace with new battery.
No color; poor picture during normal TV viewing	<ul style="list-style-type: none"> • Is the VTR/TV switch on "TV" position? • Is the antenna connected properly? 	<ul style="list-style-type: none"> • Switch VTR/TV switch to "TV" position. • Correctly connect the antenna.
Black streaks on picture	<ul style="list-style-type: none"> • Is the tape tracking properly? 	<ul style="list-style-type: none"> • Correctly adjust the Tracking Control.
Recording or playback cannot be done.	<ul style="list-style-type: none"> • Are all power switches on? • Is there moisture in the VTR? • Is there a cassette tape in VTR? • Is a safety tab on video cassette? • Is the timer in the "on" position? • Is the VTR/TV switch set on "VTR" position? • Is the Pause Switch on VTR engaged? • Is there anything connected to the Camera Input, Audio In or Video In on the VTR? 	<ul style="list-style-type: none"> • Engage all power switches. • Check for "stop" light flashing. • Put cassette tape in VTR. • Be sure video cassette has a safety tab. • Make sure the timer is not engaged. • Make sure the VTR/TV switch is on "VTR". • Make sure the Pause Switch is not engaged. • Make sure there is nothing connected to the Camera Input, Audio In or Video In on the VTR.
Time recording was not done.	<ul style="list-style-type: none"> • Has the timer been properly programmed? • Is there tape remaining on the cassette? • Is the timer switch engaged? 	<ul style="list-style-type: none"> • Make sure the program timer is correctly set. • Program may have exceeded cassette length. • Make sure the timer switch is engaged.
Tape stops before completely rewind.	<ul style="list-style-type: none"> • Is the Memory Switch engaged? 	<ul style="list-style-type: none"> • Turn off tape Memory Switch.
The battery pack is quickly discharged.	<ul style="list-style-type: none"> • Is the operating temperature below specification? • Is the battery pack fully charged? 	<ul style="list-style-type: none"> • Operating temperature is too cold. • The battery pack is not fully charged.
The function buttons cannot be activated.	<ul style="list-style-type: none"> • Is the VTR power "on"? • Is there tape remaining on the cassette? • Is the "stop" light flashing? 	<ul style="list-style-type: none"> • Turn "on" VTR power switch. • The tape is at the end of the spool; replace with new cassette tape. • Moisture has condensed inside the VTR, with power on let it sit until the light stops flashing.
The playback picture is not clear.	<ul style="list-style-type: none"> • Is the RF conversion channel properly adjusted? • Was the cassette tape recorded on another VTR? • Are the video heads clean? 	<ul style="list-style-type: none"> • Fine tune the RF conversion channel (3 or 4). • Adjust the tracking control. • Clean video heads.
The cassette tape cannot be ejected.	<ul style="list-style-type: none"> • Is the VTR in the record or playback mode? 	<ul style="list-style-type: none"> • Press "stop", then press "eject".
Previous sound is not erased during recording.	<ul style="list-style-type: none"> • Is the "sound on sound" engaged? 	<ul style="list-style-type: none"> • Set "sound on sound" to off.

How to set the clock to the correct time

(In the example below, the clock is being set to 10:30AM, Monday)

1. Press and hold CLOCK button while performing steps 2 thru 4.
2. Press day of the week. (MON)
3. Press AM/PM button to set to AM.
4. Set the time by pressing numerical keys 10, then press Hr/Min button for the hour. Press 30 and then press Hr/Min button again for the minute.
5. Release CLOCK button.

Programming timer for recording

1. Press the PROGRAM button.
2. Press the number of program.
3. If the program you wish to record is the following week or the week after, select the week by pressing 2W/3W button (2W for the following and 3W for the week after).

4. Select the Day of the Week of the program.
5. Set the starting time (using the AM/PM, numerical keys and Hr/Min buttons as done in setting the clock).
6. Set the finishing time (follow: step 5).
7. Select the channel to be recorded by pressing appropriate channel button on the tuner.
8. Set the front panel TIMER button to ON.

Checking Timer Programming

1. Press the PROGRAM button.
2. Select the program number you want to check.

Cancelling programmed data

1. Press the PROGRAM button.
2. Select the program number you want to cancel.
3. Press the CLEAR button.

Comment mettre à l'heure

1. Effectuer les réglages 2 — 3 en maintenant la touche "CLOCK" pressée.
2. Appuyer la touche qui correspond au jour de la semaine.
3. Appuyer sur la touche "AM/PM" une ou deux fois pour programmer l'affichage.
4. Relâcher la touche "CLOCK".

Exemple: Lundi 10:35 Appuyer les touches "MON", "1", "0", "Hr-Min", "3", "5", "Hr-Min" dans cet ordre tout en maintenant la touche "CLOCK" pressée. Relâcher la touche "CLOCK" en fin d'opération.

Programmation du chronorupteur pour réaliser un enregistrement

1. Appuyer la touche "PROGRAM".
2. Choisir le numéro de programme.
3. Régler l'affichage de la semaine sur "2W" ou "3W" en pressant une ou deux fois la touche "2W/3W" en fonction du programme à enregistrer la semaine prochaine ou la semaine suivante (Sauter ce paragraphe dans le cas de la semaine

courante).

4. Choisir le jour de la semaine.
5. Programmer l'heure de mise en fonction (en se servant des touches numériques, "AM/PM" et "Hr-Min").
6. Programmer l'heure de fin de programme en procédant de même (opération 5).
7. Sélectionner la chaîne qui diffusera le programme à enregistrer en pressant la touche sélection appropriée du tuner.
8. Régler la touche "TIMER" installée en façade en position "ON".

Contrôle de programmation du chronorupteur

1. Appuyer la touche "PROGRAM".
2. Sélectionner le numéro du programme à contrôler.

Annulation des instructions d'un programme

1. Appuyer la touche "PROGRAM".
2. Sélectionner le numéro du programme à contrôler.
3. Appuyer sur la touche "CLEAR".

SPECIFICATIONS

Tuner:	16 channels Feather Touch Electronic Tuner
Channel Coverage:	VHF 2—13, UHF 14—83, CATV 23 channels (105 total)
Video Signal:	NTSC color signal
Antennas:	VHF 75 ohm external terminals UHF 300 ohm external terminals
Power Consumption:	55W
Power Input:	AC 120V 60 Hz
Dimensions:	108 (H) x 263 (W) x 265 (D) mm
Weight:	4.5 kg
Accessories:	1 — UHF twin lead 1 — Channel plate 1 — Infrared Remote Control Unit 4 — Batteries

Design and Specifications subject to change without notice.

For information concerning repairs, operation or technical assistance, please contact the Service Manager of your nearest Regional Office.

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