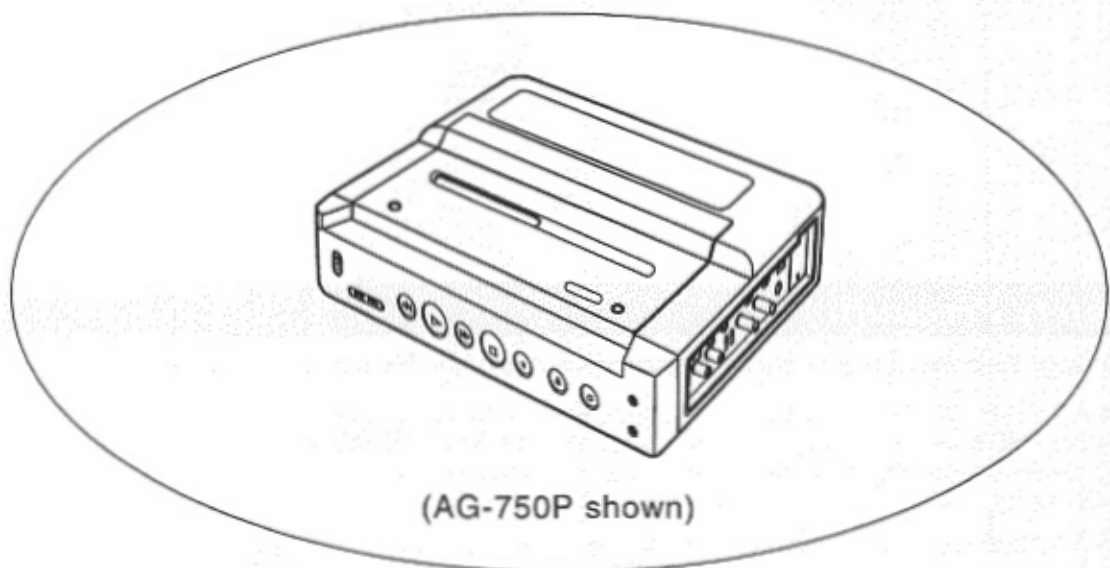


Panasonic



(AG-750P shown)

12 Volt DC Industrial Series

- MODELS** AG-710P **VHS** "Video Cassette Player"
AG-720P **VHS** "Video Cassette Recorder"
AG-750P **S-VHS** "Video Cassette Recorder"

Operating Instructions

Please read these instructions carefully before attempting to connect, operate or adjust this product.

Things You Should Know

Congratulations

on your purchase of one of the most sophisticated and reliable products on the market today. Used properly, we're sure it will bring you high quality performance. Please take time to fill in the information at right. The serial number is on the tag located on the back of your VCR. Be sure to retain this manual as a convenient information source.

Date of Purchase _____

Dealer Purchased From _____

Dealer Address _____

Dealer Phone No. _____

Model No. _____

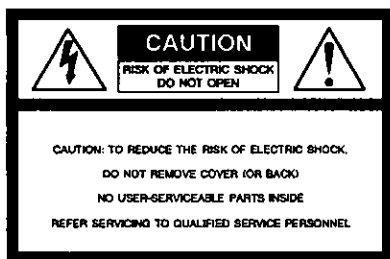
Serial No. _____

Safety Precautions

Warning: To prevent fire or shock hazard, do not expose this equipment to rain or moisture.

The AG-710P, AG-720P and AG-750P, equipped with the HQ System and is compatible with existing VHS equipment. Only use those tapes with the **VHS** or **SVHS** mark. It is recommended that only cassette tapes that have been tested and inspected for use in 2, 4, 6 and 8 hour VCR machines be used.

The AG-750P is equipped with recording functions for both conventional **VHS** and **SVHS** systems to enable users to select either mode. An **SVHS** cassette recorded in the **SVHS** mode can not be played back with conventional **VHS** VCRs.



This symbol warns the user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this unit.



This symbol alerts the user that important literature concerning the operation and maintenance of this unit has been included. Therefore, it should be read carefully in order to avoid any problems.

The above markings are located on the appliance bottom cover.

Important Safeguards

1. **Read Instructions** — All the safety and operating instructions should be read before the unit is operated.
2. **Retain Instructions** — The safety and operating instructions should be retained for future reference.
3. **Heed Warnings** — All warnings on the unit and in the operating instructions should be adhered to.
4. **Follow Instructions** — All operating and maintenance instructions should be followed.
5. **Cleaning** — Unplug this video unit from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a dry cloth for cleaning.
6. **Attachments** — Do not use attachments not specifically recommended by the video product manufacturer as they may be hazardous.
7. **Water and Moisture** — Do not use this video unit near water — for example near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.
8. **Accessories** — Do not place this video unit on an unstable cart, stand, tripod, bracket, or table. The video unit may fall, causing serious injury to a child or adult, and serious damage to the unit. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the video unit. Any mounting of the unit should follow the manufacturer's instructions and should use a mounting accessory recommended by the manufacturer. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



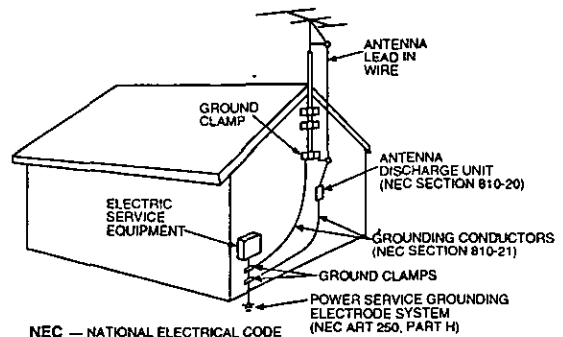
9. **Ventilation** — Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the video unit and to protect it from overheating. These openings must not be blocked or covered. Never place the video unit on a bed, sofa, rug, or other similar surface, or near or over a radiator or heat register. This video unit should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
10. **Power Sources** — This video unit should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For video units intended to be operated from battery power, or other sources, refer to the operating instructions.

11. **Grounding or Polarization** — This video unit may be equipped with either a polarized 2-wire AC (Alternating Current) line plug (a plug having one blade wider than the other) or 3-wire grounding type plug, a plug having a third (grounding) pin.

The 2-wire polarized plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug still fails to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

The 3-wire grounding type plug will fit into a grounding type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding type plug.

12. **Power-Cord Protection** — Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords of plugs, convenience receptacles, and the point where they exit from the unit.
13. **Outdoor Antenna Grounding** — If an outside antenna or cable system is connected to the video unit, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Part 1 of the Canadian Electrical Code, in USA Section 810 of the National Electrical Code, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.



Important Safeguards

14. **Lightning** — For added protection of this video unit receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the video unit due to lightning and power-line surges.
15. **Power Lines** — An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
16. **Overloading** — Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.
17. **Objects and Liquids** — Never push objects of any kind into this video unit through openings as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind onto the video unit.
18. **Servicing** — Do not attempt to service this video unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
19. **Damage Requiring Service** — Unplug this video unit from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - a. When the power-supply cord or plug is damaged.
 - b. If any liquid has been spilled onto, or objects have fallen into the video unit.
 - c. If the video unit has been exposed to rain or water.
 - d. If the video unit does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the video unit to its normal operation.
 - e. If the video unit has been dropped or the cabinet has been damaged.
 - f. When the video unit exhibits a distinct change in performance — this indicates a need for service.
20. **Replacement Parts** — When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.
21. **Safety Check**— Upon completion of any service or repairs to this video unit, ask the service technician to perform safety checks to determine that the video unit is in safe operating order.

Precautions

USE & LOCATION

- **TO AVOID SHOCK HAZARD ...** Your VCR and power supply should not be exposed to rain or moisture. Do not connect the power supply or operate your VCR if it gets wet. Your VCR has been designed for outdoor use, however it is not designed to sustain direct exposure to water, rain, sleet, snow, sand, dust, or a direct splashing from a pool or even a cup of coffee. This action could permanently damage the internal parts of your VCR. Do not attempt to disassemble this unit. There are no user serviceable parts inside. Unplug your VCR from the power supply before cleaning.
- **DO NOT EXPOSE YOUR VCR TO EXTENDED HIGH TEMPERATURE ...** Such as, in direct sunlight, inside a closed car, next to heater, etc... This action could permanently damage the internal parts of your VCR.
- **AVOID SUDDEN CHANGES IN TEMPERATURE ...** If the unit is suddenly moved from a cold place to a warm place, moisture may form on the tape and inside the unit.
- **DO NOT LEAVE YOUR VCR OR THE POWER SUPPLY TURNED ON WHEN NOT IN USE**
- **STORAGE OF YOUR VCR ...** Store and handle your VCR in a manner that will not subject it to unnecessary movement (avoid shaking and striking). Your VCR contains a sensitive pick-up device which could be damaged by improper handling or storage.

CARE

- **TO CLEAN YOUR VCR ...** Do not use strong or abrasive detergents when cleaning your VCR body.
- **TO PROTECT THE FINISH OF YOUR VCR ...** Before handling your VCR, make sure your hands and face are free from any chemical products such as suntan lotion as it may damage the finish.

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This operating instruction book is designed for use with models **AG-710P**, **AG-720P** and **AG-750P**. Illustrations in this manual show the **AG-750P**. Features may vary, so please read carefully.

Differences between models

Model Number	Tape	Rec Mode	SQP/B	Hi-Fi Stereo	Flying Erase Head
AG-710P	VHS Full Cassette	——	YES	NO	NO
AG-720P	VHS Full Cassette	SP/SLP	YES	YES	NO
AG-750P	S-VHS/VHS Full Cassette	SP/SLP	——	YES	YES

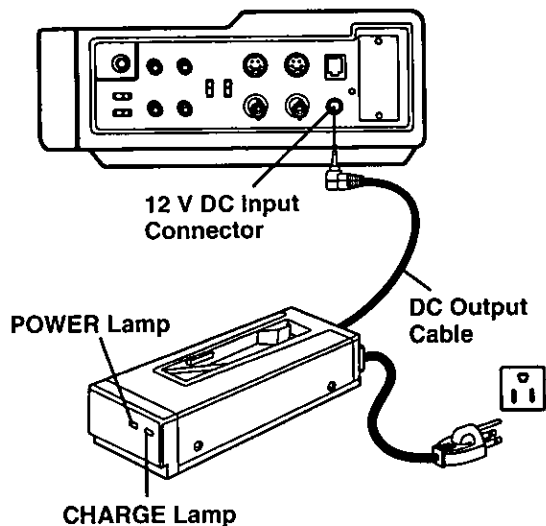
Model Number	Video-In	Video-Out	Audio-In	Audio-Out
AG-710P	No	BNC	No	RCA
AG-720P	BNC	BNC	RCA/External Microphone Jack (M3)	RCA with HiFi/Normal Selector Switch
AG-750P	BNC/S-VIDEO with Selector Switch	BNC/S-VIDEO	RCA/External Microphone Jack (M3)	RCA with HiFi/Normal Selector Switch

Model Number	Mic-In	Head Phone
AG-710P	No	2-Output (M3)
AG-720P	Yes (M3)	1-Output (M3)
AG-750P	Yes (M3)	1-Output (M3)

Supplying Power

AC Adaptor (Optional: AG-B21P)

Make sure the VCR unit is OFF before connecting.



1 Connect the DC Output Cable into the DC Input Connector on your VCR.

2 Plug in the AC Adaptor.
• The Power lamp will light up.

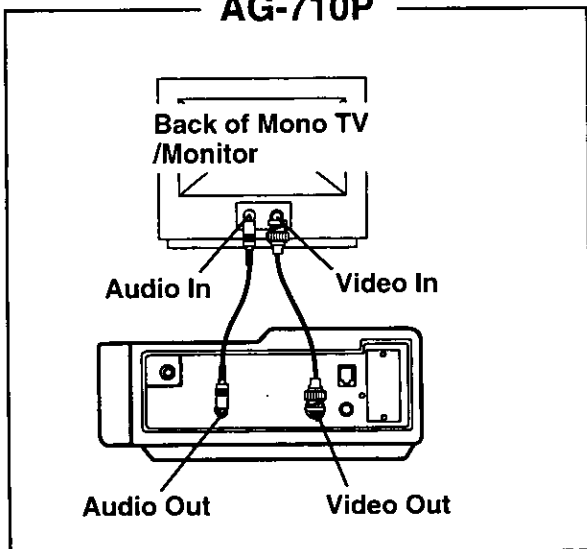
Note:

Do not disconnect the power source while operating.

Connection to TV/Monitor

(Output)

AG-710P

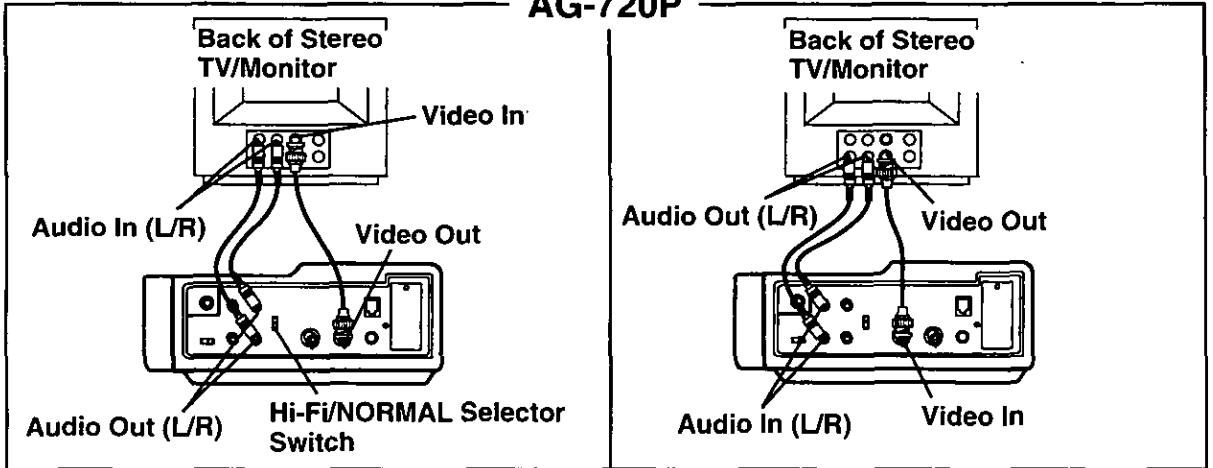


Connection to TV/Monitor

(Output)

AG-720P

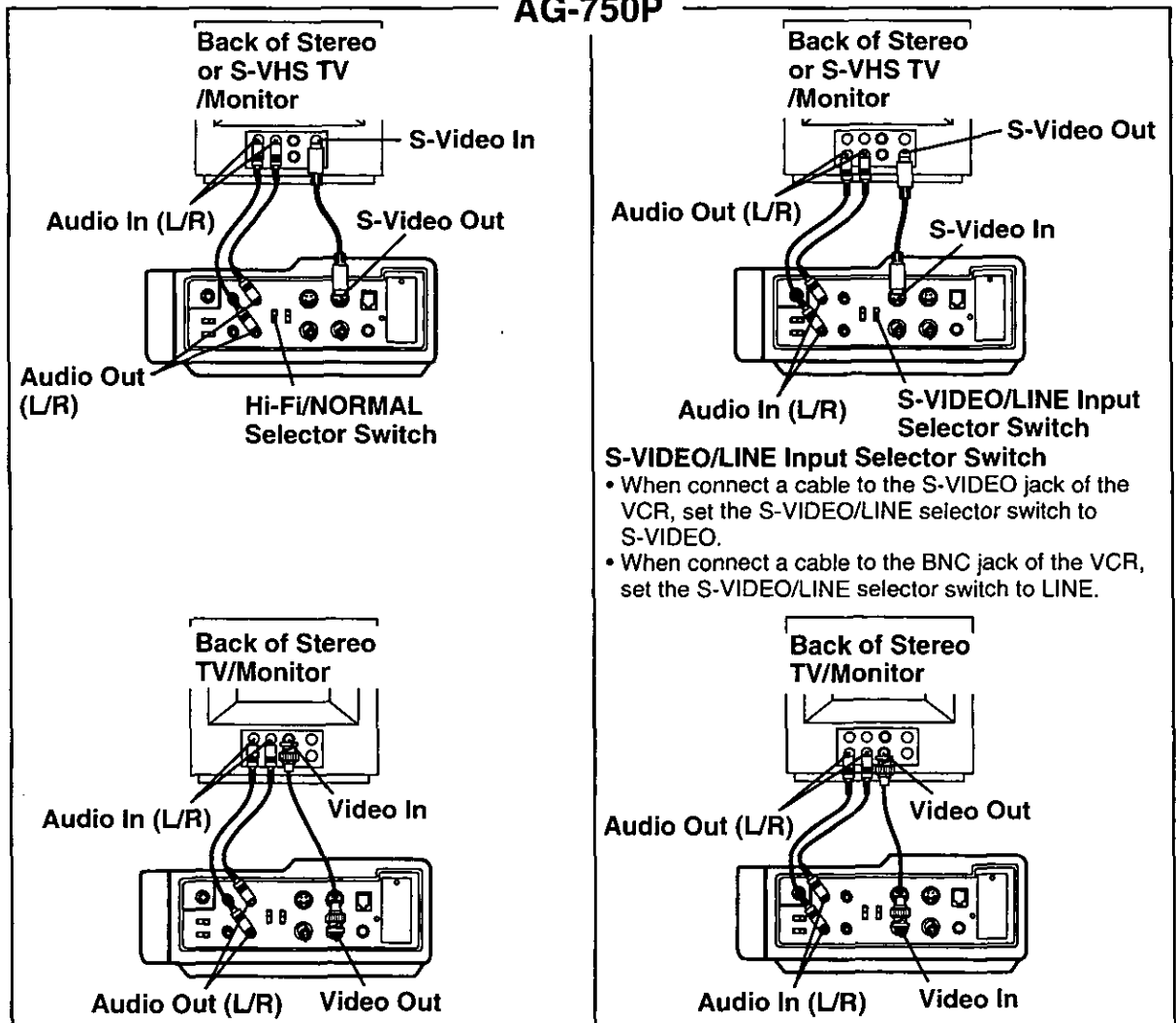
(Input)



(Output)

AG-750P

(Input)



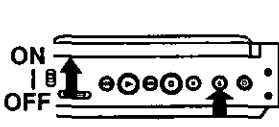
S-VIDEO/LINE Input Selector Switch

- When connect a cable to the S-VIDEO jack of the VCR, set the S-VIDEO/LINE selector switch to S-VIDEO.
- When connect a cable to the BNC jack of the VCR, set the S-VIDEO/LINE selector switch to LINE.

Quick Guide

This guide should only be used once you are familiar with the operations inside this manual. If you have any problems or need more information, please refer to the captioned page.

Playback a Tape (page 9)



Turn TV/Monitor on to LINE or VIDEO.

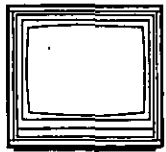
Set the POWER switch to ON. Then, press the EJECT on the VCR to insert a cassette.

Start playback

Stop playback

Eject cassette

Make a Recording (page 11) (AG-720P/AG-750P)



Turn TV/Monitor on to LINE or VIDEO.

Set the POWER switch to ON. Then, press the EJECT on the VCR to insert a cassette.

Insert a cassette with the Record Tab intact.

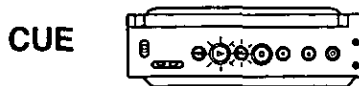
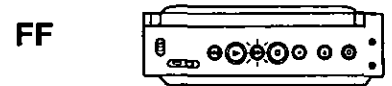
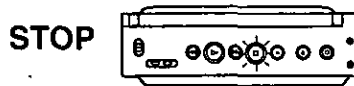
Select speed

Start recording

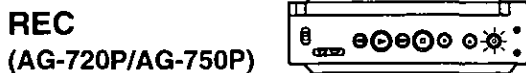
Stop recording

LED Display

During the following operations, the LED changes from amber to green.



During the following operation, the LED changes from amber to red.



During the following operation, the RECORD Button LED changes from red to green and the PAUSE Button LED changes from amber to green.



During DEW, the LED flashes amber.



If excessive moisture condenses in the unit, it will not operate and this indicator will flash. In this case, wait until the indicator no longer flashes.

Basic Playback

Playback Operation

Before you begin, make sure...

- Connections are made (see pages 6, 7).

1 Turn TV/Monitor on.
(Switch your TV/Monitor to LINE or VIDEO.)

2 Set the POWER switch to ON.

3 Press EJECT on the VCR to insert a cassette.

4 Insert a cassette.

- Playback begins if cassette has no record tab (AG-710P only).

5 Press PUSH HERE to close the door.

6 Press PLAY to start playback.

7 Press REWIND or FAST FORWARD to quickly locate a scene during playback.

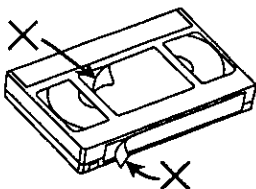
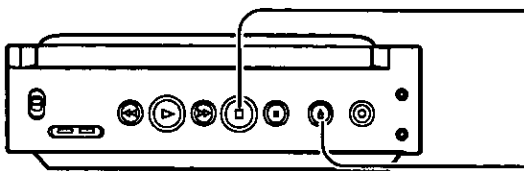
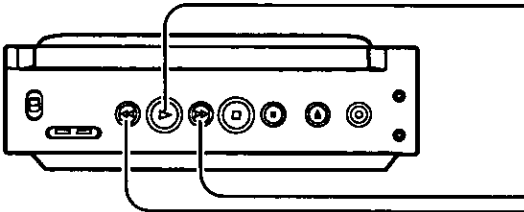
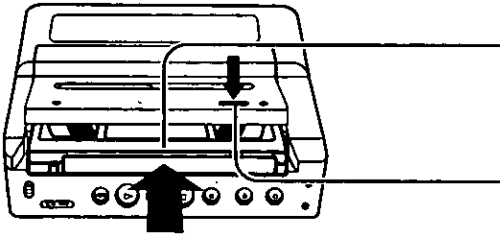
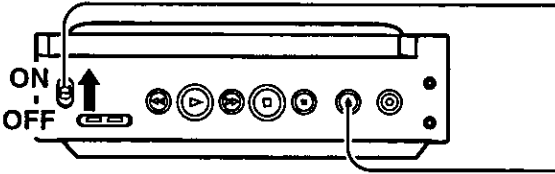
- SP mode tapes have a search speed of 3 times and SLP mode tapes 9 times the normal speed.
- Some noise bars will appear during search.

8 Press STOP to stop playback.

Then, press EJECT on the VCR to eject the cassette.

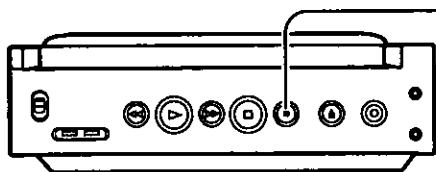
Caution:

Please inspect your cassette tape for any loose or peeling labels as it may become jammed in your unit.



Special Playback Features

Special Effects During Playback



These features work best in SP or SLP mode. Sound will be muted.

Pause (Freeze) Frame Picture

Press **PAUSE** to freeze and release the picture.

Repeat Play

AG-710P

- The VCR will play to the end of a tape, or until it reaches a blank portion 5 seconds or more. (Erased portions of tape are not considered blank.) Then, the VCR will automatically rewind the tape and play it again and again until you cancel repeat play.

- All function buttons (REW, FF, etc.) are operational during REPEAT Play.

AG-720P/AG-750P

- The VCR will play to the end of a tape. Then, the VCR will automatically rewind the tape and play it again and again until you cancel repeat play.

- All function buttons (REW, FF, etc.) are operational during REPEAT Play.

Auto Playback (Only AG-710P)

When **POWER** is ON, the tape will automatically begin play back if the record tab has been removed.

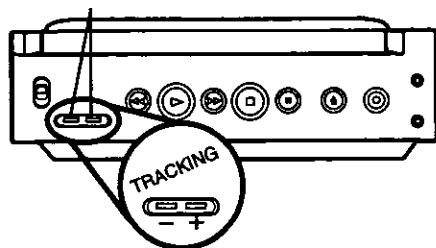
Auto Rewind

After a tape reaches its end during fast forward the VCR will rewind it and go into Stop mode.

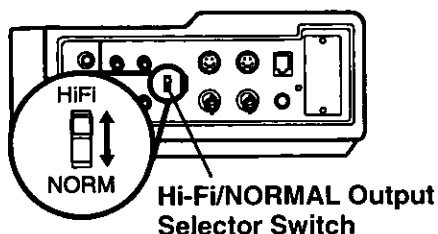
Features for a Quality Picture

Tracking Control

Tracking Control



VHS Hi-Fi Stereo Sound System (AG-720P/AG-750P)



S-VHS Quasi Playback (SQPB) (AG-710P/AG-720P)

This feature allows you to view tapes pre-recorded in the S-VHS format right on your standard VHS VCR. The resolution will be that of a standard VHS tape.

Auto Tracking

This feature continuously analyzes the signal and adjusts for optimum picture quality.

Manual Tracking Control

Use during Playback to reduce picture noise.

Press **+/-** until the picture clears up.

To return to the Auto Tracking mode, press **+/-** at same time.

Both Hi-Fi and normal audio sound are automatically recorded. To enjoy Hi-Fi Audio Stereo Sound playback, connect your VCR to a stereo TV or to your stereo system.

HiFi Position

Set to this position for normal use. Also when you want to listen to the Hi-Fi track only of an audio dubbed recording.

Normal Position

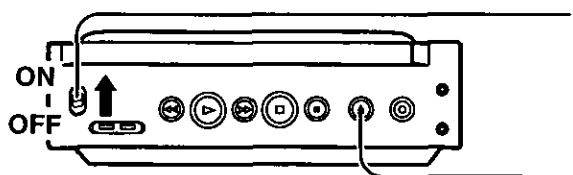
Set to this position to listen to the normal track only of an audio dubbed recording.

Basic Recording (AG-720P/AG-750P)

Recording Operation

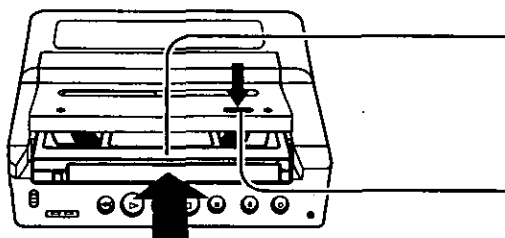
Before you begin, make sure...

- Connections are made (see pages 6, 7).



1 Turn TV/Monitor on.
(Switch your TV/Monitor to LINE or VIDEO.)

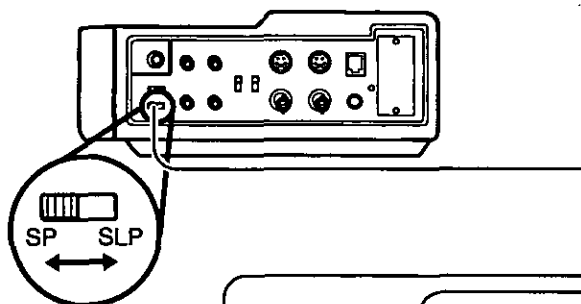
2 Set the POWER switch to ON.



3 Press EJECT on the VCR to insert a cassette.

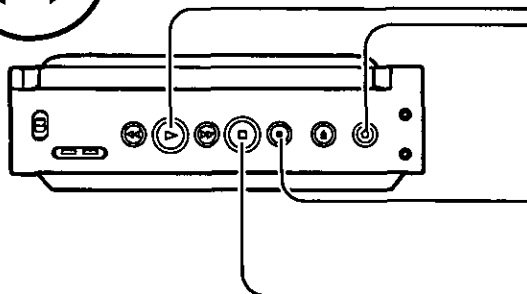
4 Insert a cassette with the record tab intact.

5 Press PUSH HERE to close the door.



6 Slide the TAPE SPEED Selector switch to SP or SLP (see page 14).

7 Press RECORD and PLAY at the same time to start recording.



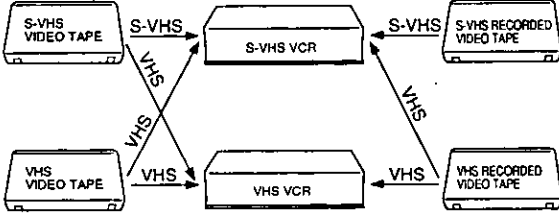
8 Press PAUSE to pause or resume the recording.

9 Press STOP to stop recording.

Super (S) VHS System (AG-750P)

S-VHS and VHS Tapes

S-VHS tape playback is superior to VHS, even when using a conventional TV. And, your S-VHS VCR can also play back VHS format tapes.



Both Super-VHS and VHS recordings can be made on an S-VHS tape. Tapes recorded in VHS may be played back on either an S-VHS or VHS type VCR. Tapes recorded in S-VHS cannot be played back on a conventional VHS VCR.

- When a VHS recorded tape is played back on your S-VHS VCR, the VHS mode is automatically selected. Playback and Recording operations are described on pages 9, 10 and 11.

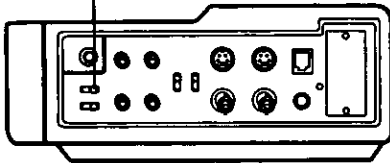
S-VHS/VHS System Selections

- Connections are shown (see page 7).

S-VHS SELECTOR S-VHS OFF AUTO	Cassette Tape	
	SUPER VHS	VHS
AUTO	S-VHS RECORDING	VHS RECORDING
OFF	VHS RECORDING	VHS RECORDING

When the S-VHS Selector switch is set to AUTO, the recording mode is automatically set according to the type of cassette tape used, S-VHS or VHS. When the S-VHS Selector switch is set to OFF, recording is done in the normal VHS mode, regardless of the type of cassette tape inserted. Use the off position when recording on an S-VHS tape in VHS mode to be played back on an VHS VCR.

S-VHS Selector Switch

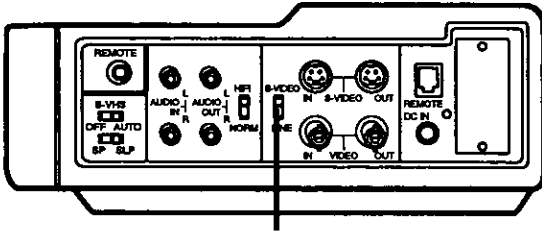


Helpful Notes

- A conventional VCR will not be able to play back your S-VHS recordings. To make recordings that are compatible with conventional VHS VCR's, use your S-VHS VCR with the S-VHS Selector switch set to "OFF".

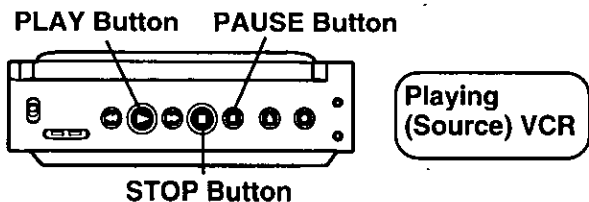
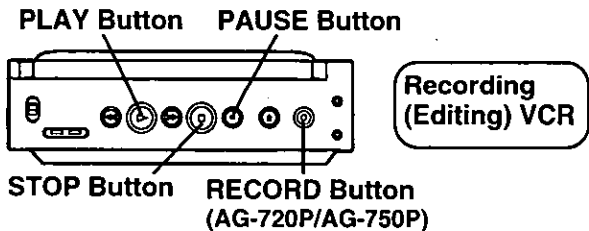
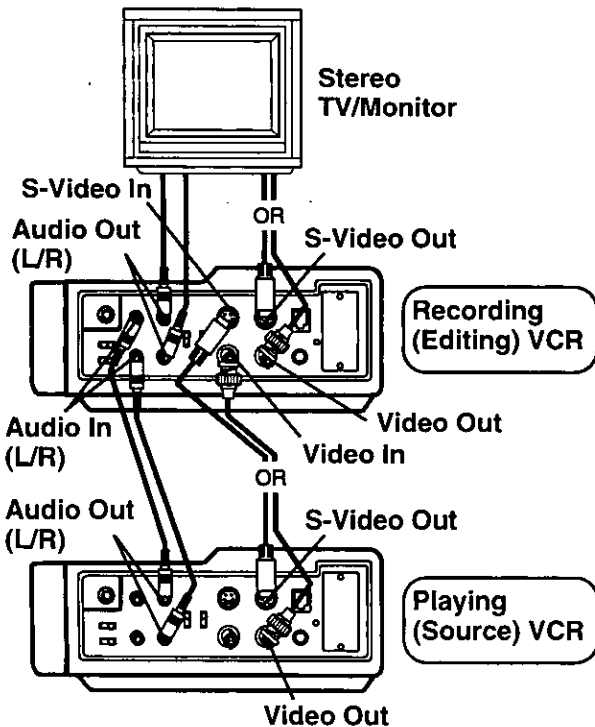
Copy Your Tape (Dubbing)

Connections you'll need to make.
Side View (AG-750P)



S-VIDEO/LINE Input Selector Switch (AG-750P)

- When connect a cable to the S-VIDEO jack of the VCR, set the S-VIDEO/LINE selector switch to S-VIDEO.
- When connect a cable to the BNC jack of the VCR, set the S-VIDEO/LINE selector switch to LINE.



1 Insert a pre-recorded tape into the Playing (Source) VCR.

Then, insert a blank tape with an intact record tab into the Recording (Editing) VCR.

2 Select "LINE" or "S-VIDEO" as the input on the Recording VCR. (AG-750P)

3 Press **PLAY** on the Playing VCR.

Then, press **PAUSE** when the tape reaches the point you want to start copying.

4 Press **REC** and **PLAY** at the same time on the Recording VCR.

Then, press **PAUSE** immediately.

5 Press **PAUSE** on both VCRs (at the same time), to begin copying.

Then, press **STOP** on both VCRs to stop copying.

Caution:

Unauthorized exchanging and/or copying of copyrighted recordings may be copyright infringement.

Helpful Note

- By using the **PAUSE** button (on the Recording unit) while copying is in progress, you can edit out unwanted parts of the original recording.

VCR and Cassette Information

Erase Protection (Record Tab)

Cassettes have a removable record tab to ensure that recordings are not accidentally erased.

Break off the tab with a screwdriver to prevent accidental erasure.



Cover the hole with cellophane tape to record again.



Maximum Record (AG-720P/AG-750P)/Playback Time

Only use tapes with the **VHS** or **SVHS** (only AG-750P) mark in this unit.

Tape Speed Position	Type of Video Cassette		
	T60	T120	T160
SP (Standard Play)	1 hour	2 hours	2 hours 40 minutes
LP (Long Play)*	2 hours	4 hours	5 hours 20 minutes
SLP (Super Long Play)	3 hours	6 hours	8 hours

* LP mode is available only in the playback mode.

Cleaning Care for Video Heads



Picture Playback with Clogged Heads

Clogged Video Heads

Your VCR will not normally require head cleaning, however the heads may become clogged when playing an old or damaged tape.

If the image on your screen resembles the image shown left during playback, the heads probably require cleaning.

Cleaning the Heads

It is recommended that head cleaning be performed by a qualified service technician. Please contact your nearest Panasonic Service Center. An alternate solution is to obtain a head cleaning cassette. Be sure to follow the cleaning instructions carefully. Excessive use of a cleaning cassette could shorten head life.

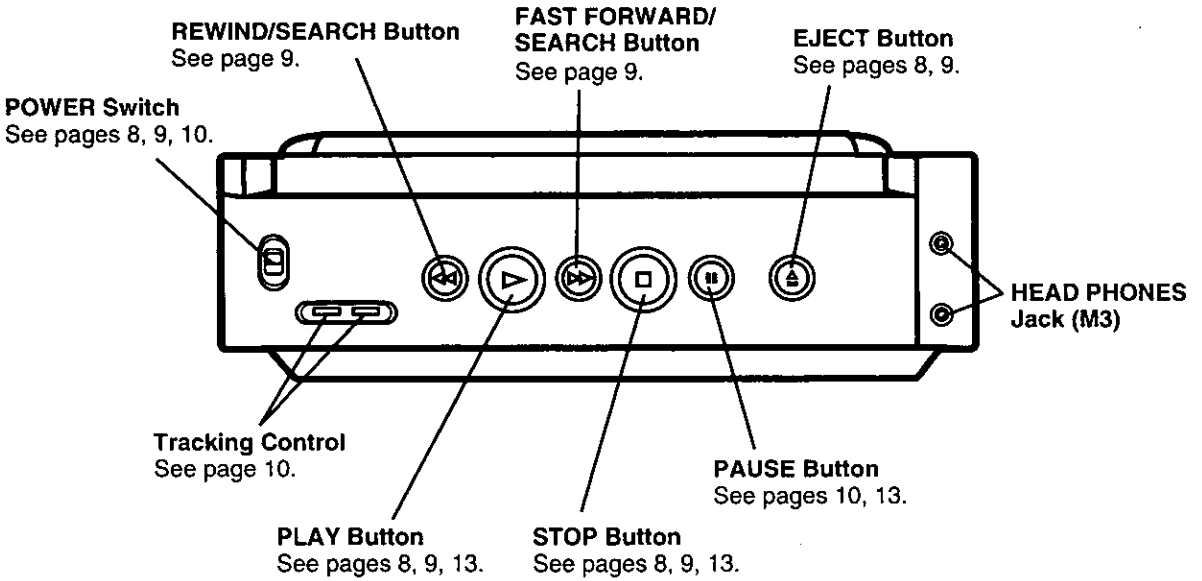
Use this cassette only when symptoms occur.

Note:

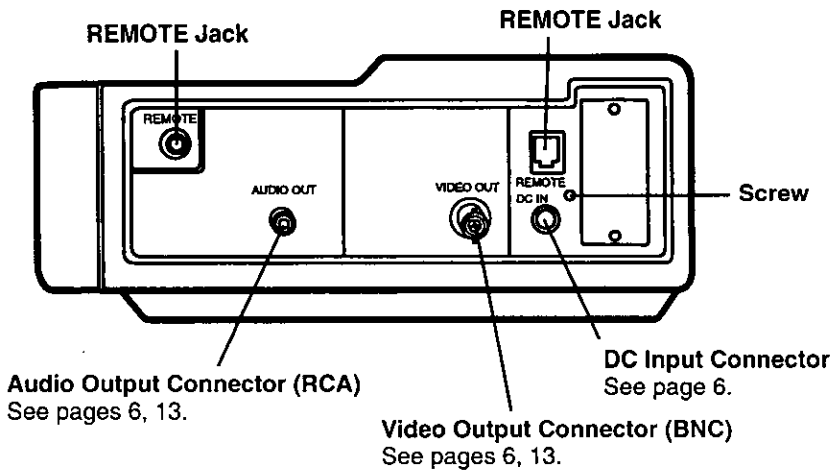
AG-710P will rewind a head cleaning cassette approximately 5 seconds after the cleaning started. In this case, press STOP and then PLAY to continue cleaning.

Index of Controls (AG-710P)

Front View

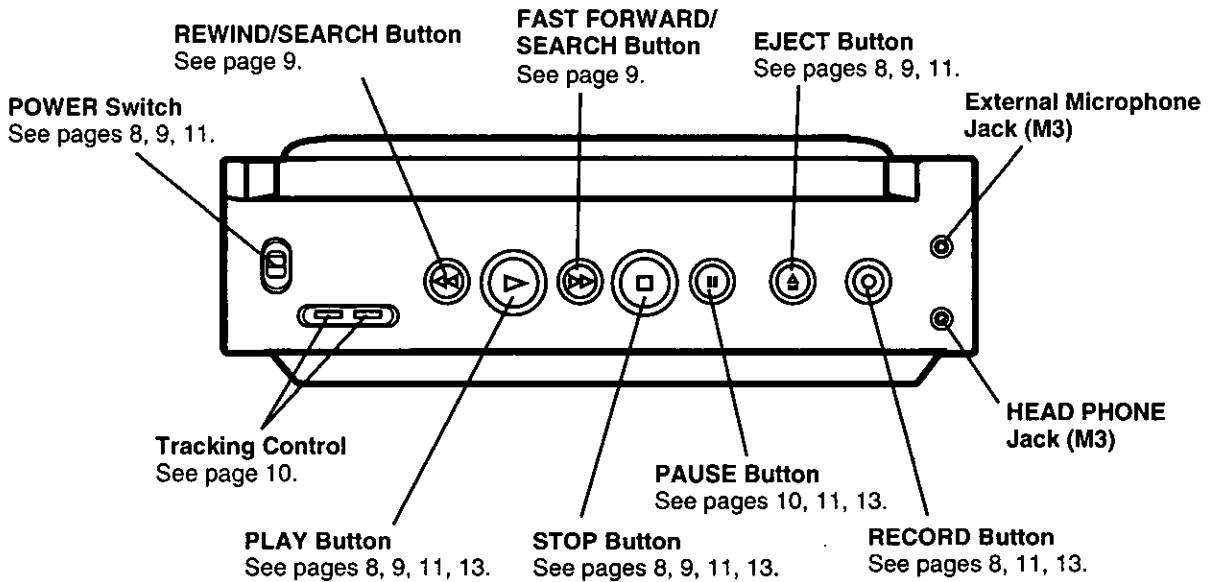


Side View

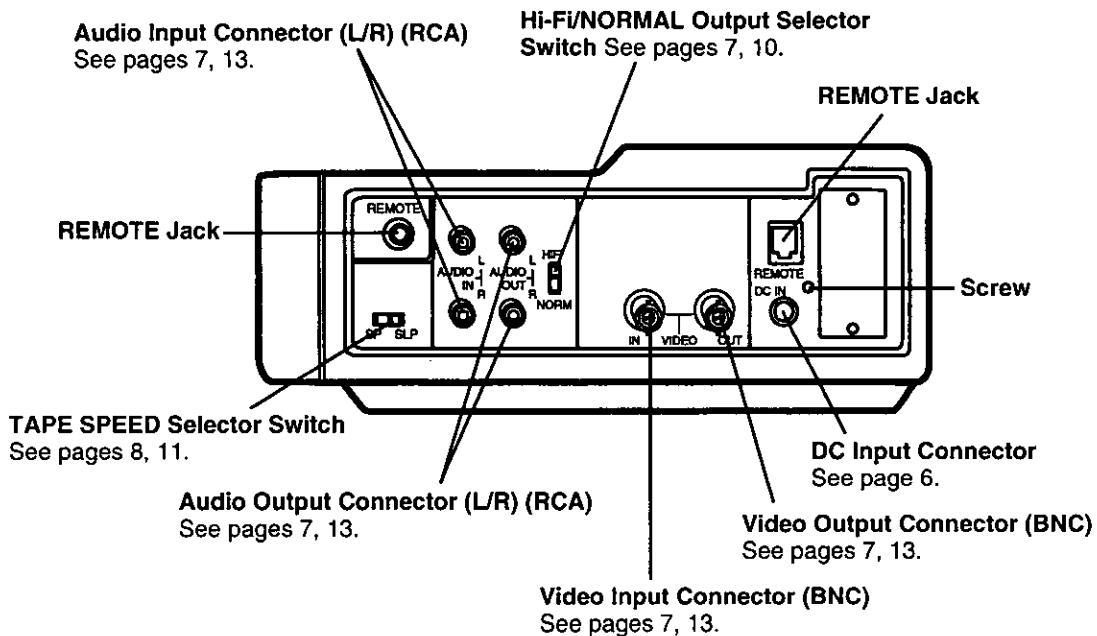


Index of Controls (AG-720P)

Front View

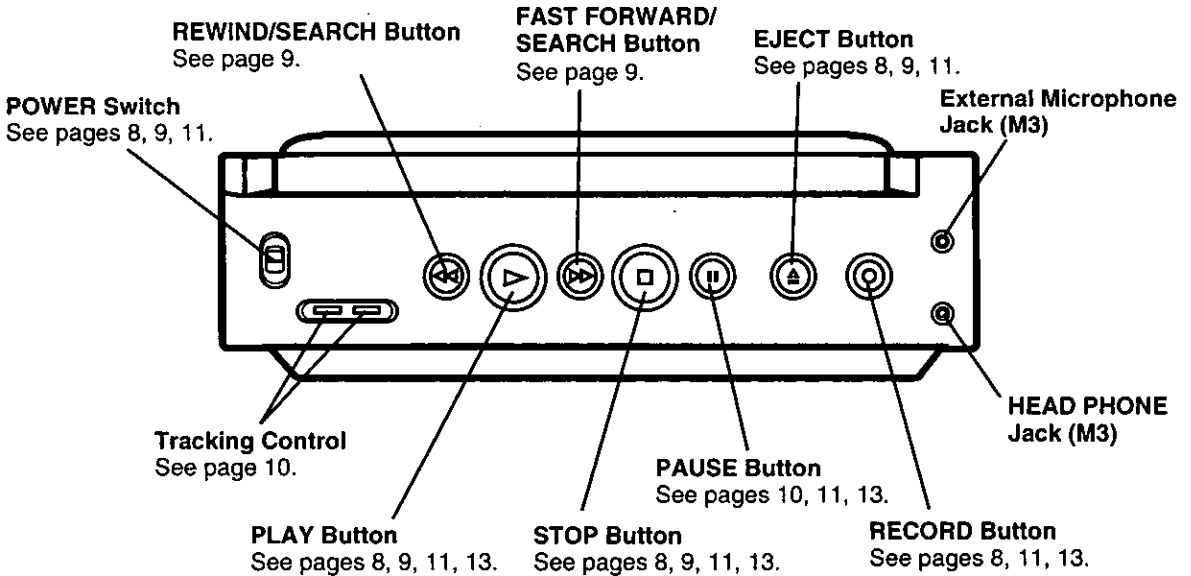


Side View

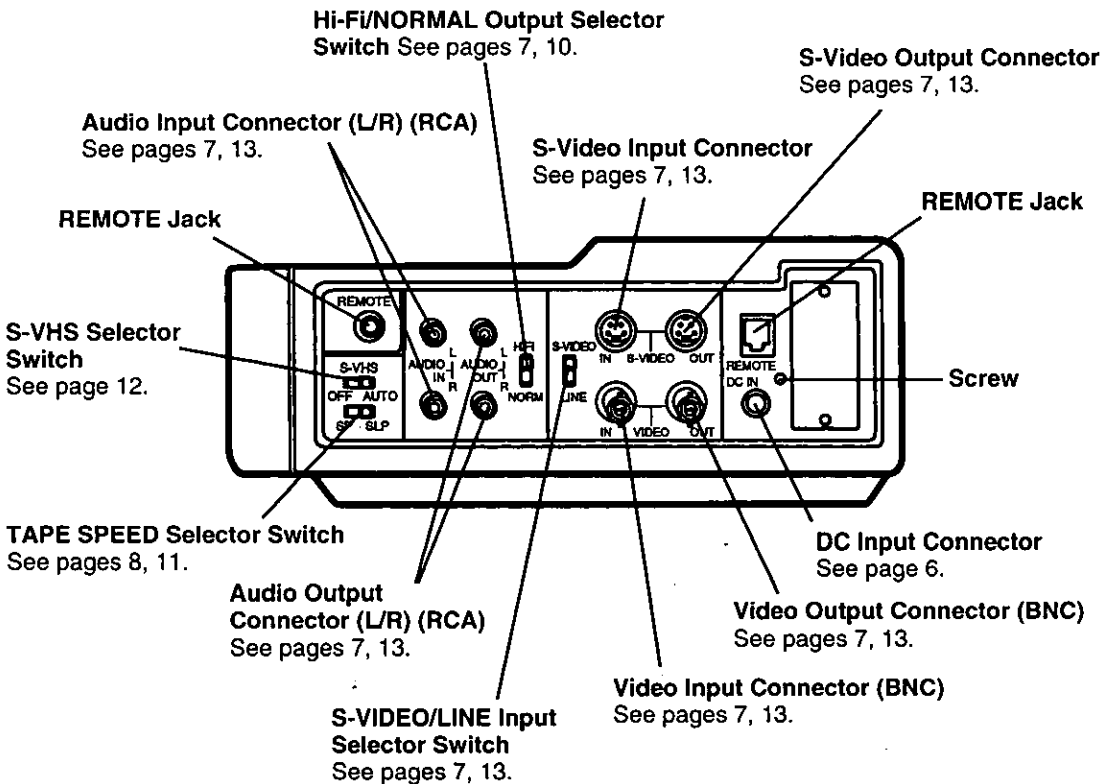


Index of Controls (AG-750P)

Front View



Side View



Helpful Notes on Operations

Special Playback Features

- During search playback, horizontal noise bars will appear on the TV screen.
- After the VCR is in the Still or Rec Pause mode for 5 minutes it will go into the Stop mode automatically to protect the tape and video head.
- The special effects playback feature is intended for tapes recorded in SP or SLP speed. Tapes recorded in LP mode can also be viewed in special effects playback, but the picture may be completely snowy.

Flying Erase Head (AG-750P)

AG-750P uses advanced Flying Erase Head technology to produce exceptionally clean edits.

Basic Recording (AG-720P/AG-750P)

- While it is possible to change the tape speed when you are recording, there will be some distortion on the tape where the change occurred.
- After the VCR has been in Pause mode for 5 minutes, it will stop automatically to protect the tape and video head.

FCC Warning: Any unauthorized changes or modifications to this equipment would void the user's authority to operate.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Specifications

Power Source:	12V DC
Power Consumption:	8 W (AG-710P)
Video Signal:	EIA Standard NTSC color
Video Recording System:	4 rotary heads helical scanning system
Audio Track:	1 track (Normal) (AG-710P) 2 channels (Hi-Fi Audio Sound) (AG-720P/AG-750P)
Operating Temperature:	41°F~104°F (5°C~40°C)
Operating Humidity:	10%~75%
Weight:	4.0 lbs. (AG-710P) 1.85 kg (AG-710P)
Dimensions:	9-3/4 (W) X 3-1/2 (H) X 8-1/8 (D) inch (AG-710P) 250 (W) X 88 (H) X 205 (D) mm (AG-710P)

Note: Designs and specifications are subject to change without notice.

Before Requesting Service

Check the following points once again if you are having some trouble with your VCR.

Power	Correction
No power... No operation starts when operation buttons are pressed...	<ul style="list-style-type: none">• Check that the Power Plug is completely connected to an AC outlet.• Check that the POWER switch is set to on.• Check the DEW indicator. If it is displayed, the unit will not operate.
Recording & Playback	Correction
TV program can't be recorded... There is no playback picture, or the playback picture is noisy or contains streaks... During special effects playback, the picture may contain some vertical jitter when using a TV which has an Automatic Vertical Hold Control... If the top of your playback picture waves back and forth excessively...	<ul style="list-style-type: none">• Check the connections between the VCR and your TV.• Check that the band selected matches your antenna or cable TV system.• Make sure that the record tab on the back of the cassette is still intact. (P.14)• Adjust the TRACKING control slowly in either direction. (P.10)• Video heads are clogged. (P.14)• Set the TV's Vertical Hold Control to "MANUAL" and then adjust it.• Because the VCR playback signal is not as stable as an off-the-air TV signal, the top of your TV screen may be bent or unstable during playback. To solve this problem, slowly turn the horizontal hold control on your TV to correct the wavy picture. If your TV does not have a horizontal hold control or adjusting the control does not help, please contact your local TV service center.
Miscellaneous	Correction
Video cassette can't be inserted... Video cassette can't be removed... Video cassette ejects when the REC and PLAY buttons are pressed...	<ul style="list-style-type: none">• Insert the cassette with the window side up and the record tab facing you.• Check that the power plug is completely connected to an AC outlet.• Make sure the record tab on the back of the cassette is still intact. (P.14)

Panasonic

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