

SV.903

DATA CASSETTE USER'S MANUAL



SPECTRAVIDEO™

SPECTRAVIDEO'S USER'S MANUAL STATEMENT

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient the receiving antenna
- Relocate the computer with respect to the receiver
- Move the computer away from the receiver
- Plug the computer into a different outlet so that computer and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:

"How to Identify and Resolve Radio-TV Interference Problems"
This booklet is available from the U.S. Government Printing Office,
Washington, DC 20402, Stock No. 004-000-00345-4.

WARNING:

This equipment has been certified to comply with the limits for a class B computing device, pursuant to Subpart J of Part 15 of FCC Rules. Only peripherals, (computer input/output devices, terminals, printers, etc.) certified to comply with the Class B limits may be attached to this computer. Operation with non-certified peripherals is likely to result in interference to radio and TV reception.

INTRODUCTION

Spectravideo's Data Cassette SV-903 is a peripheral specially designed for use with the Spectravideo Personal Computer System. This advanced data cassette has an interface built-in, so it can hook up directly to your computer.

The Data Cassette SV-903 enables you to utilize Spectravideo's full range of pre-recorded program tapes, and to store and run your own computer programs on standard audio cassette tapes.

Just a few minutes spent carefully reading through this instruction manual will assure your attaining optimal performance from your new Spectravideo Data Cassette SV-903.

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SPECTRAVIDEO DUAL CHANNEL DATA CASSETTE SV-903 INSTRUCTION MANUAL

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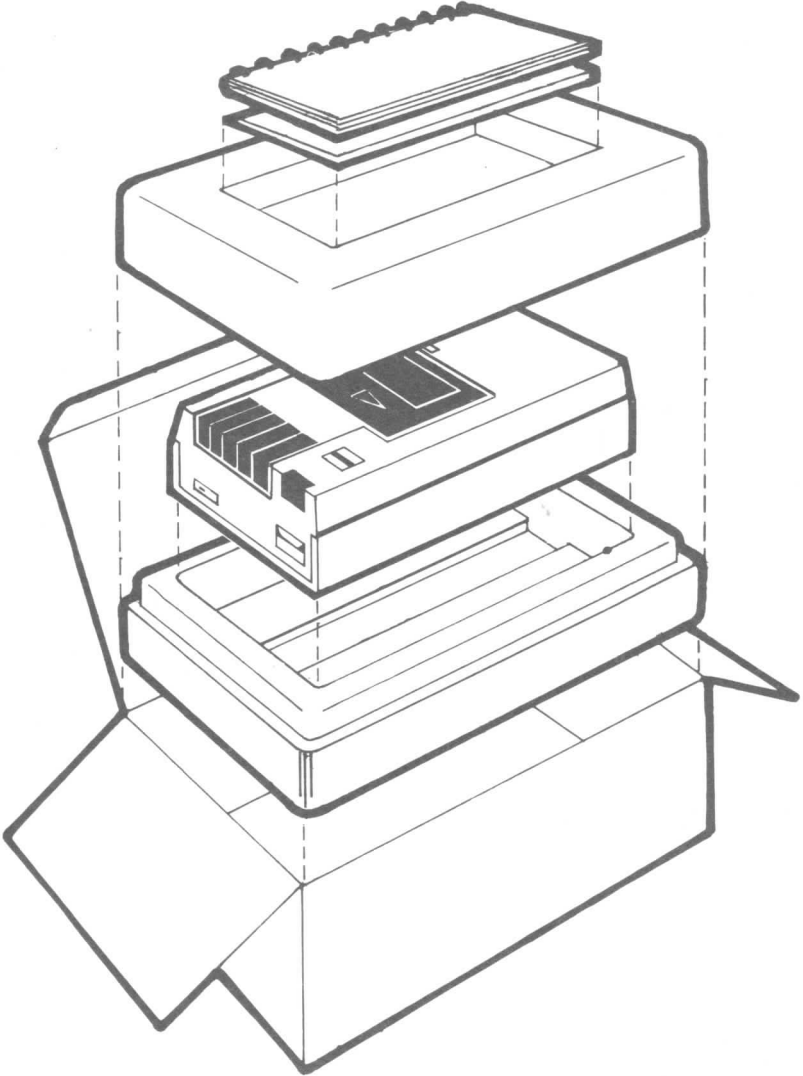
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1. Accessories

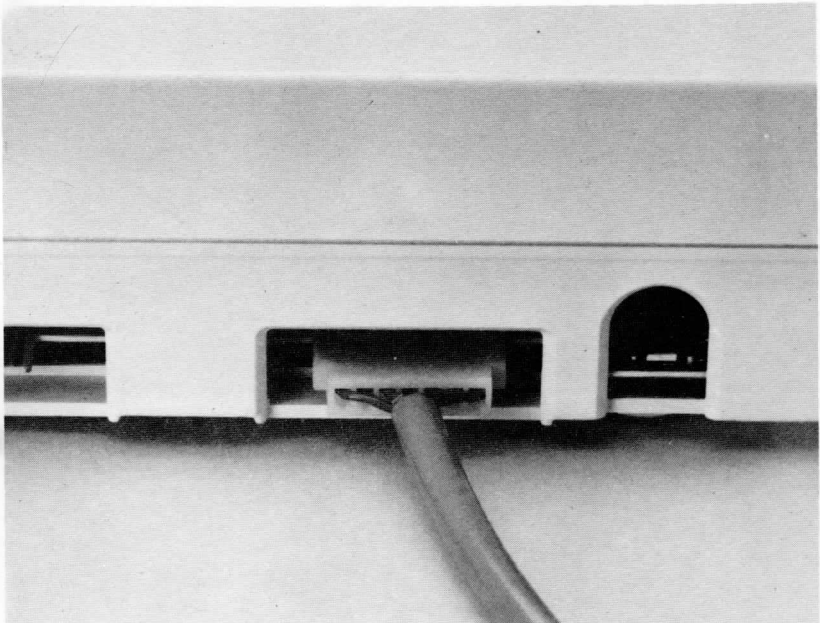
The package of the SV-903 should contain the following items:

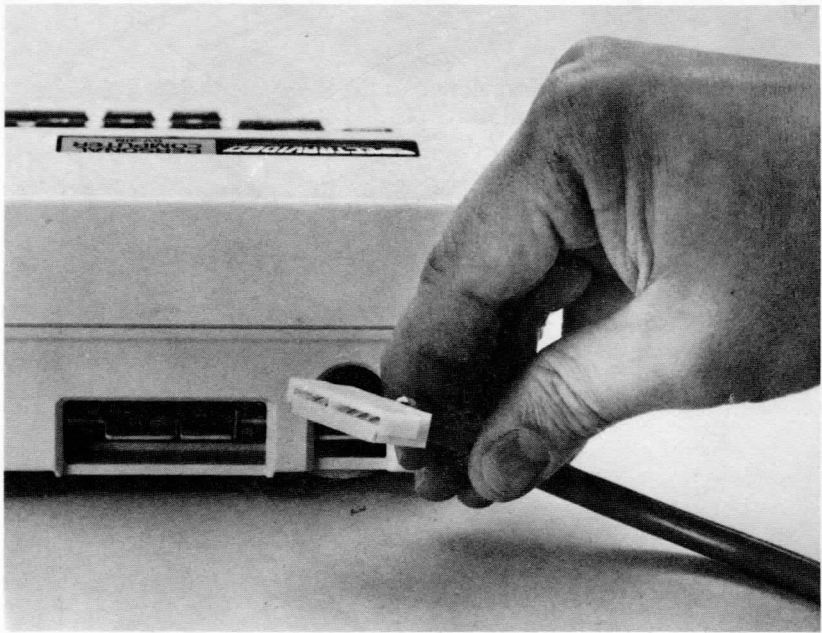
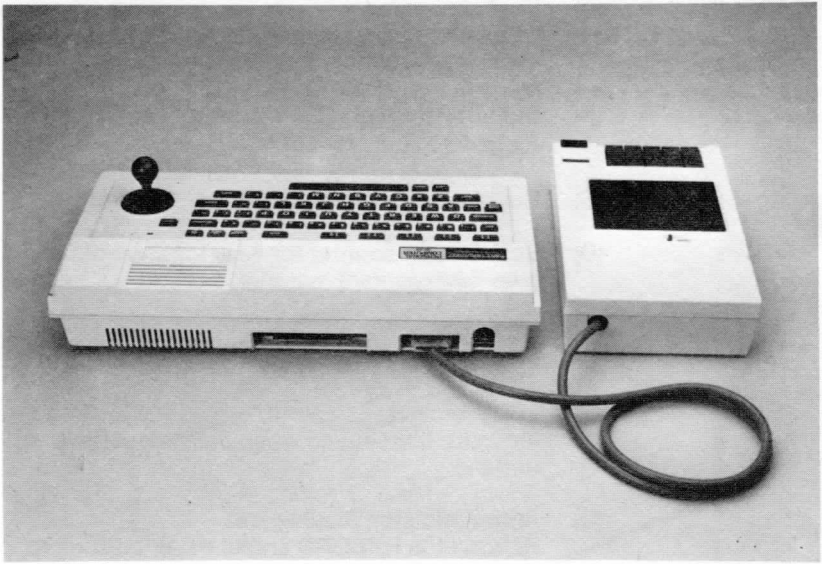
- (A) Cassette Drive with a 3-ft. cord (one end with connector)
- (B) Instruction Manual



- 2. Main Features**
- (A) Dual channels
1 channel for voice (reproduced via TV loud-speaker), 1 channel for data
 - (B) Built-in Automatic Level Control (ALC)
for good quality recording
 - (C) Built-in condenser microphone
 - (D) Built-in tape counter for easy location of
recorded program material
 - (E) Battery-free
Power supplied by SV-318 or SV-328 basic unit
 - (F) LED indicator
Indicator illuminates when data cassette is
running
 - (G) Automatic stop mechanism
Returns the RECORD and/or PLAY buttons to
the stop positions when tape comes to its end.

- 3. Connections**
- (A) Connection of the SV-903 to the SV-318 basic
unit is simple and direct via a 7-pin connector.

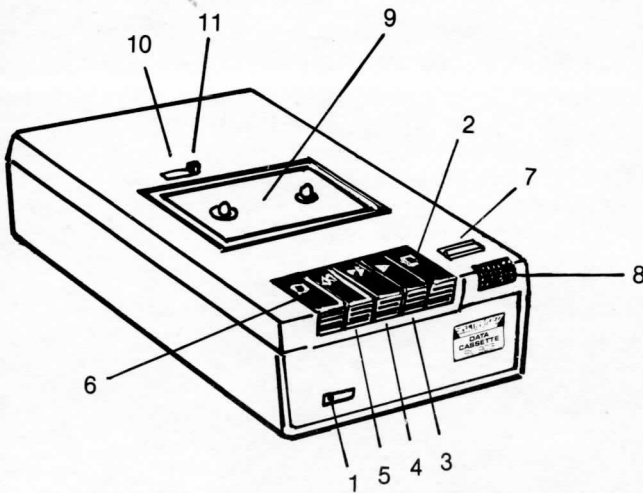




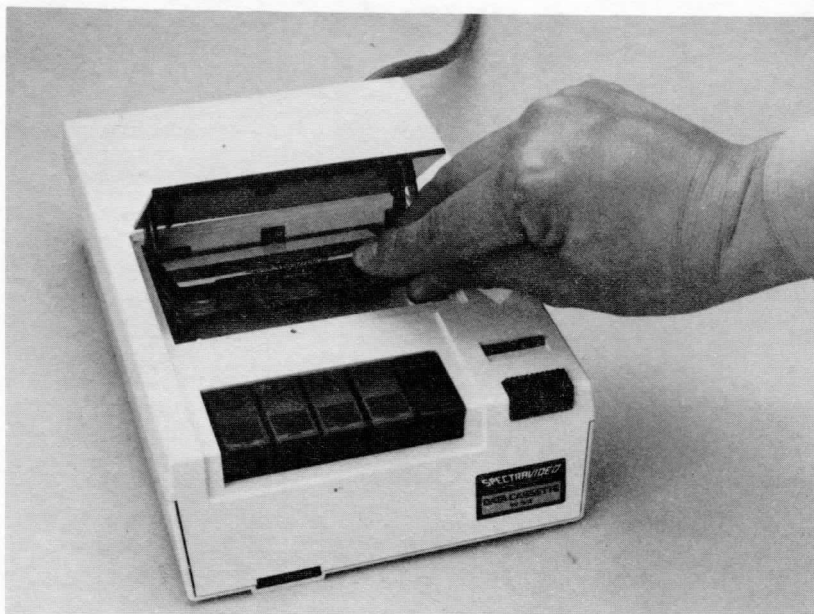
Power Supply (B) Power to the SV-903 data cassette is supplied and controlled by the SV-318 or SV-328 basic unit.

4. Operations

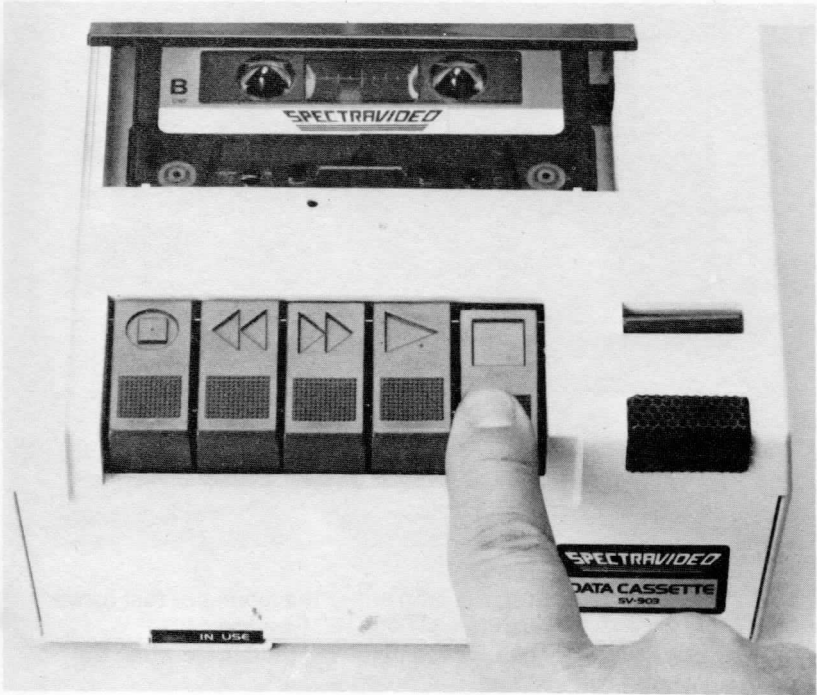
1. LED indicator
2. STOP/EJECT button
3. PLAYBACK button
4. FAST FORWARD button
5. REWIND button
6. RECORD button
7. Microphone ON/OFF switch
8. built-in condenser microphone
9. Cassette cover
10. Tape counter
11. Counter reset button



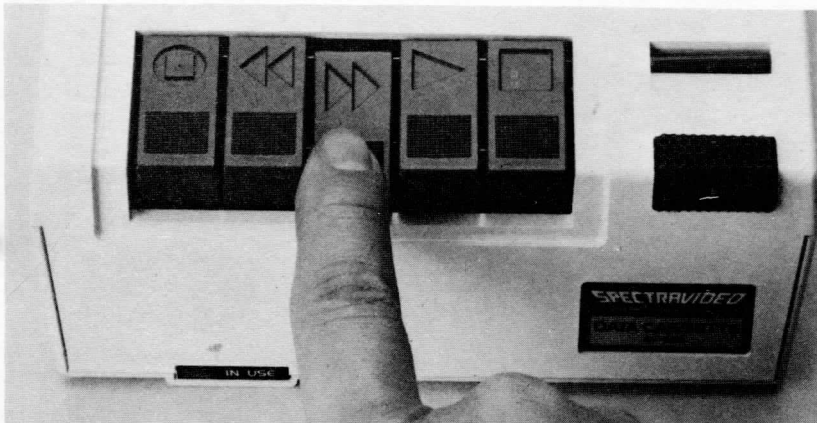
(A) To Insert the Cassette
Loading is the same as with most other
cassette decks. Press the STOP/EJECT
button to open the cover. Insert the cassette
with the tape opening facing towards the
front of the set, and the fully wound
portion on the left side. Press down
on the cover to close before operating.



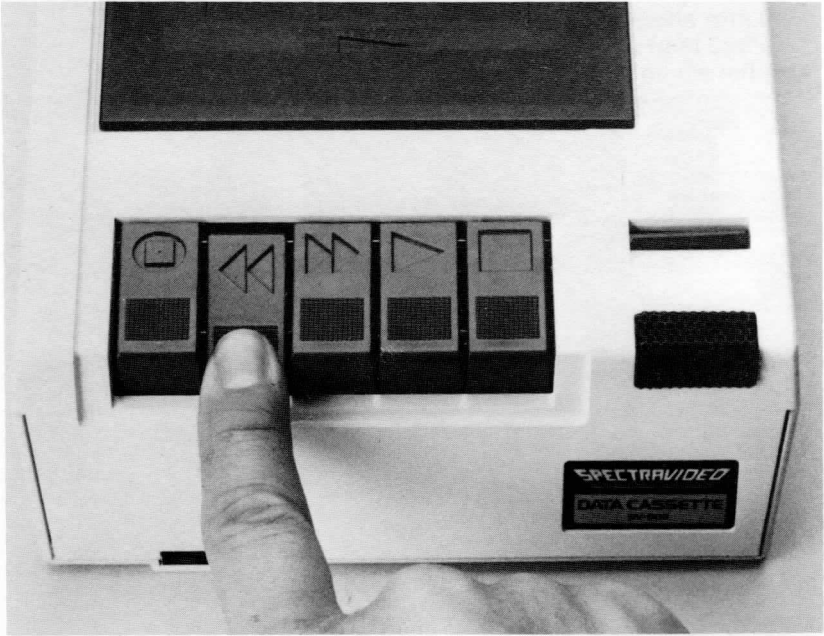
- (B) To Eject the Cassette
Press the STOP/EJECT button to stop the tape, and then press the button again so the cover opens and the cassette pops up for easy removal.



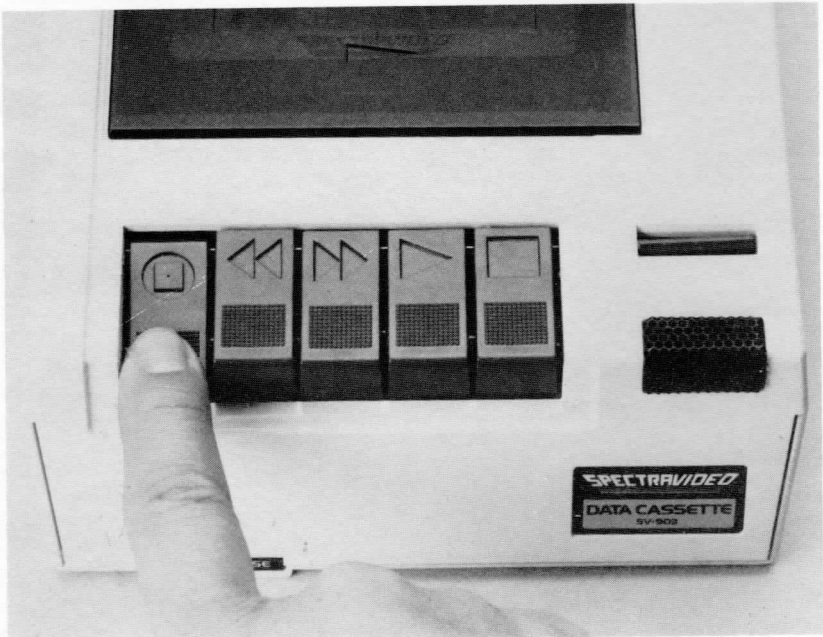
- (C) Fast Forward and Rewind
(Note: These signals are controlled by the power signal of the SV-318 or SV-328)
Fast Forward: Tape is quickly moved forward onto the right reel by pushing the FAST FORWARD button.



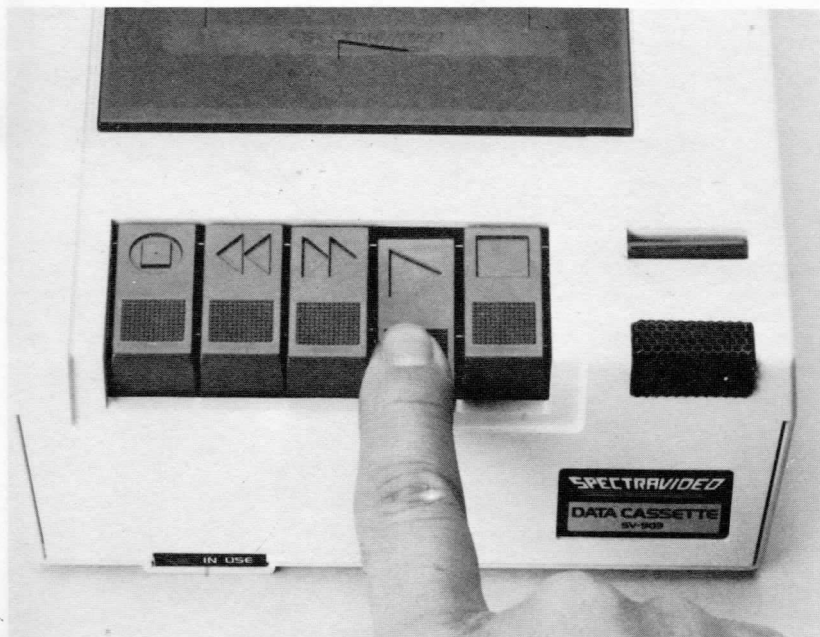
Rewind: By pushing the REWIND button, the tape is rewound rapidly onto the left reel.



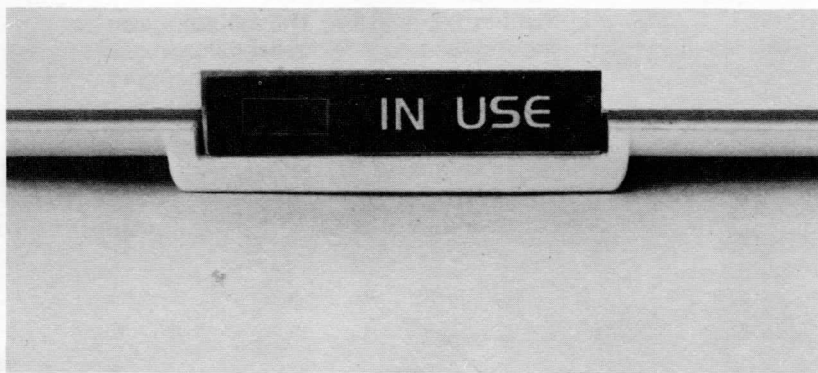
Stop: To stop either the rewind or fast forward, push the STOP/EJECT button. The LED indicator will illuminate when the cassette is in use.



- (D) Playback
Turn the power on. After inserting the cassette, push the PLAYBACK button. Program/Data on the tape will be loaded into the computer.

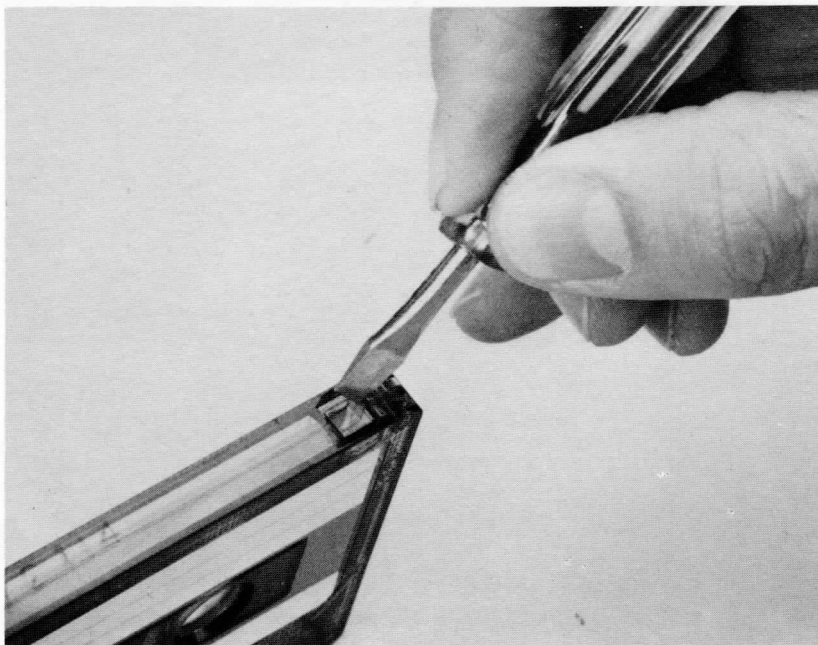


- (E) Recording
Insert the tape you wish to record onto. Push down the PLAY and RECORD buttons simultaneously. Give the CSAVE command and press "enter" on the SV-318 or SV-328, and start recording. The LED indicator will illuminate.

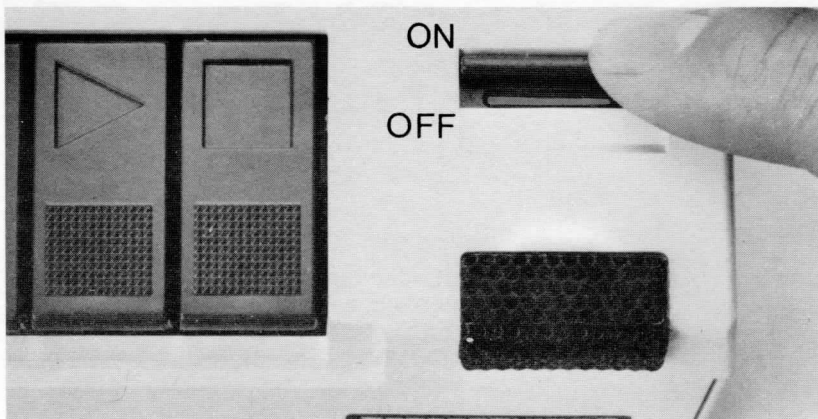


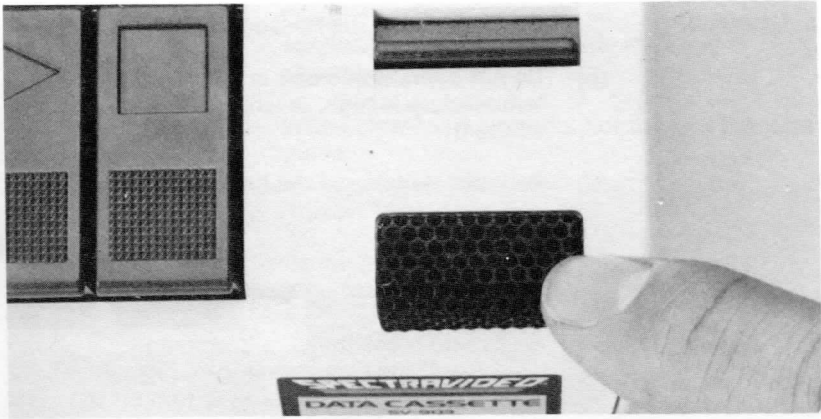
- (F) Erasure of Recordings
When recording, any previously recorded material on the tape is erased automatically. All previous recordings are completely erased as the cassette runs from beginning to end on each side.

- (G) **Record Prevent Device**
The cassettes used in this unit contain special "knockouts" to prevent accidental erasure of a program. These tabs (on the back of the cassette) can be replaced should you ever want to re-record on the tape.



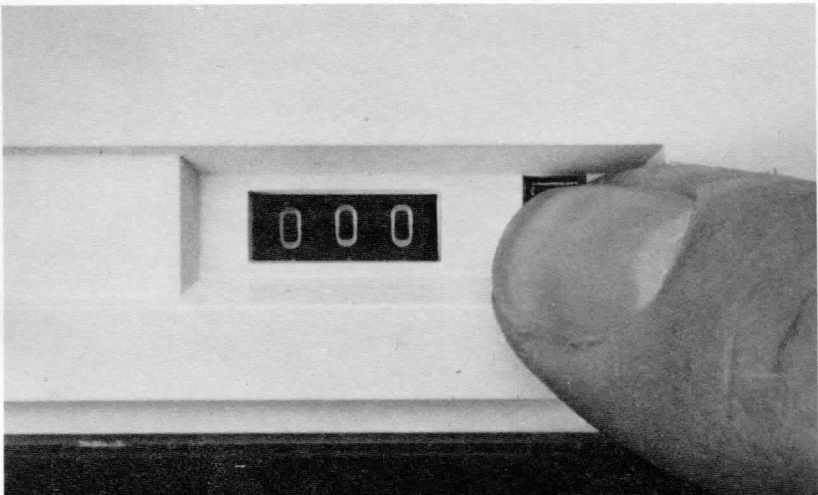
- (H) **Audio Recording**
Push the RECORD and PLAYBACK buttons simultaneously. Set the microphone switch to the "ON" position. Speak into the microphone (within 1½ ft/45 cm). The recording can be reproduced via a TV loudspeaker. If audio recording is not required, set the microphone switch to the "OFF" position.





- (I) **Automatic Stop Mechanism**
When the tape comes to its end during the playback or recording, the tape movement stops automatically, and the PLAY button and RECORD button are released. After the automatic stop mechanism has functioned, the PLAY button cannot be locked. The PLAY button will only operate after rewinding of the tape. Note that this automatic stop mechanism does not function while machine is in the fast forward or rewind mode.

- (J) **Tape Counter**
The tape counter is for easy location of material recorded on tapes. Push the reset button to set the tape counter to the "000" position. This is the position you start on for recording or playback.

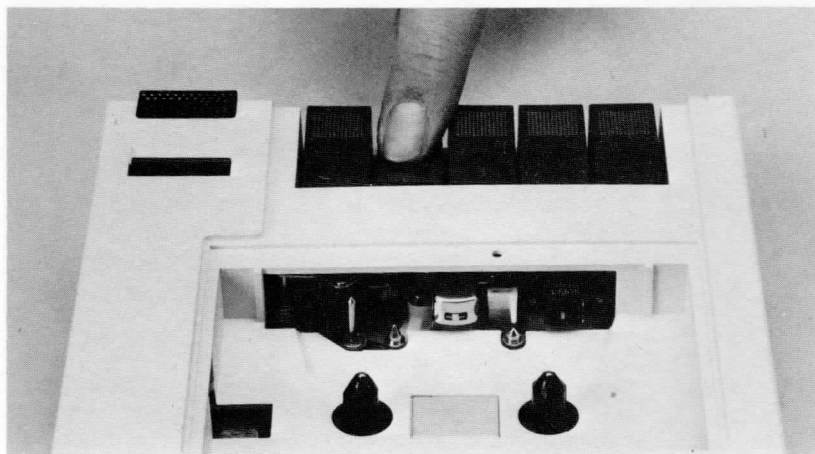


5. Cautions

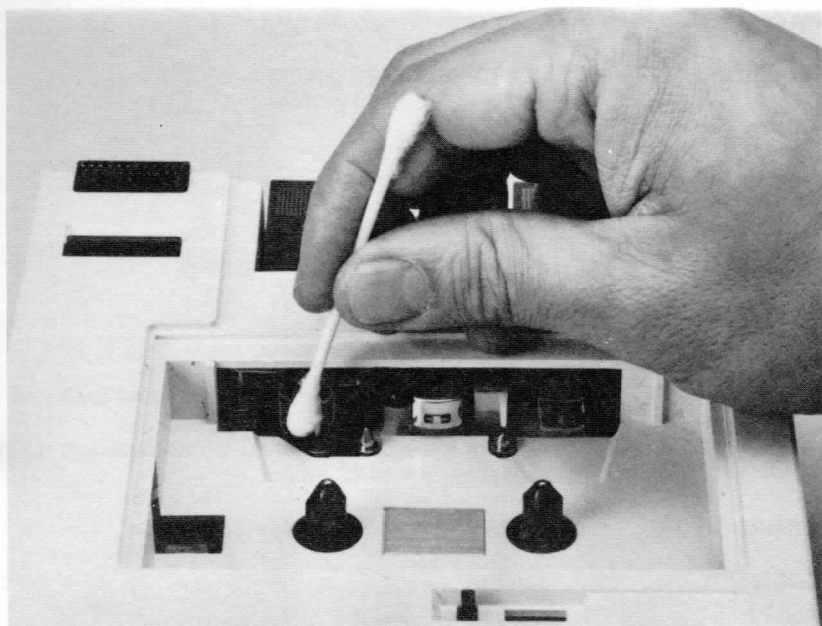
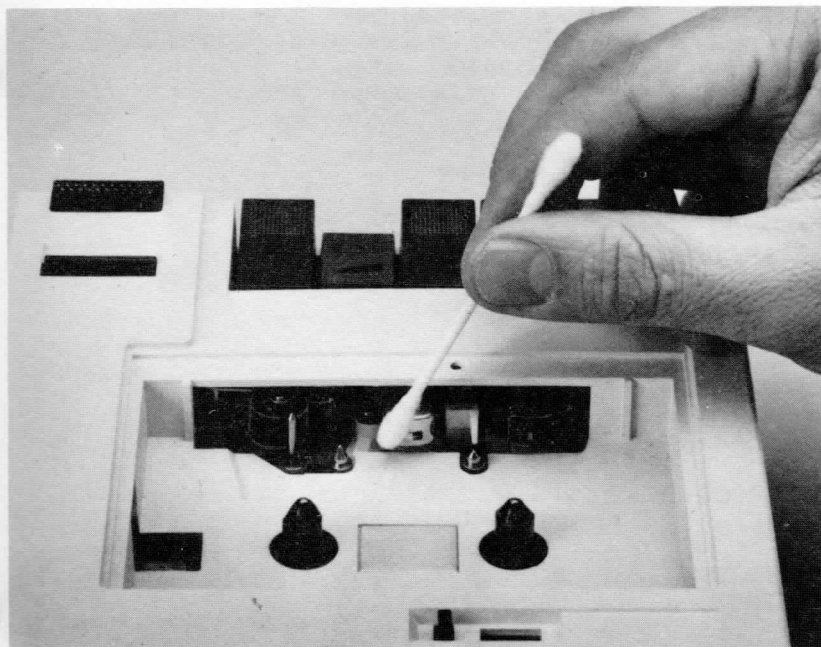
- (A) Use this unit in the horizontal position only.
- (B) Do not operate this unit in an area where the temperature is high, or where there is direct sunlight.
- (C) Periodic cleaning of the head assembly is necessary to avoid dirt.
- (D) Be sure to press the stop button before removing or inserting a cassette tape.
- (E) Be sure to press the stop button and disconnect the command signal (from the SV-318 or SV-328 basic unit) to turn off the power after using.
- (F) Metal cassette tape is not recommended for this cassette deck. Under sixty minute tapes will provide optimal performance with this unit. If more than sixty minutes playing time is required, be sure to select a high quality cassette tape capable of reliable performance. It is recommended that you use leaderless tapes 1800 BPS

6. Maintenance

- (A) The head assembly, the capstan and the pressure roller are always in contact with the tape during operation. Therefore, they tend to get dirty very easily and this has an adverse effect on the recording quality and the volume. Occasional cleaning is necessary.
- (B) To clean the head assembly, remove the cassette and push the playback button. The head assembly then becomes accessible. Use a cotton swab dipped in denatured alcohol or head cleaning fluid.



- (C) Don't allow magnetic materials, such as a screwdriver or a magnet, near the head assembly.
- (D) When cleaning, be careful not to bend the tape guide.



7. Specifications

These specifications are subject to change, in order to accommodate improvements in design.

FUNCTIONS	REC/REW/FF/PLAY/STOP/EJECT
HEADS	1 R/P Head 1 Erase Head (DC)
RECORD BIAS	AC 60 Hz
CHANNELS	2
BAUD RATE	1,800 BPS
CHANNEL SEPARATION	35 db min
THIRD HARMONIC DISTORTION	3%
CROSS TALK	40 db (min)
S/N	20 db (min)
MAX RECORD LEVEL	50mV via MIC
OPERATING VOLTAGE	8.4v-15v DC
RATED VOLTAGE	12v DC
RATED LOAD	9 gm/cm
TORQUE	PLAY mode 40-70 gm/cm FF/REW mode 60 gm/cm
PINCH ROLLER PRESSURE	450 gm + 100 gm
TAPE SPEED	4.75 cm/sec. + 3% 2400 RPM + 48 RPM
WOW & FLUTTER	Less than 0.3% (JIS)
FLUCTUATION OF SPEED	Against voltage: 30 RPM (max) at rated load and voltage 8.4v-15v DC Against load: 50 RPM (max) at rated voltage ad load 8 gm/cm to 12 gm/cm
WINDING TIME	FF/REW 100 sec (max) for C-60 tapes
COUNTER	3 digits

OTHER FEATURES	Power-ON LED indicator, ALC Recording level, Built-in condenser MIC for recording
TEMPERATURE	Operating 5-35 C
HUMIDITY	Operating 30-90%
DIMENSIONS (mm)	164 (W) x 251 (D) x 68 (H)
WEIGHT	Approximately 1 kg

