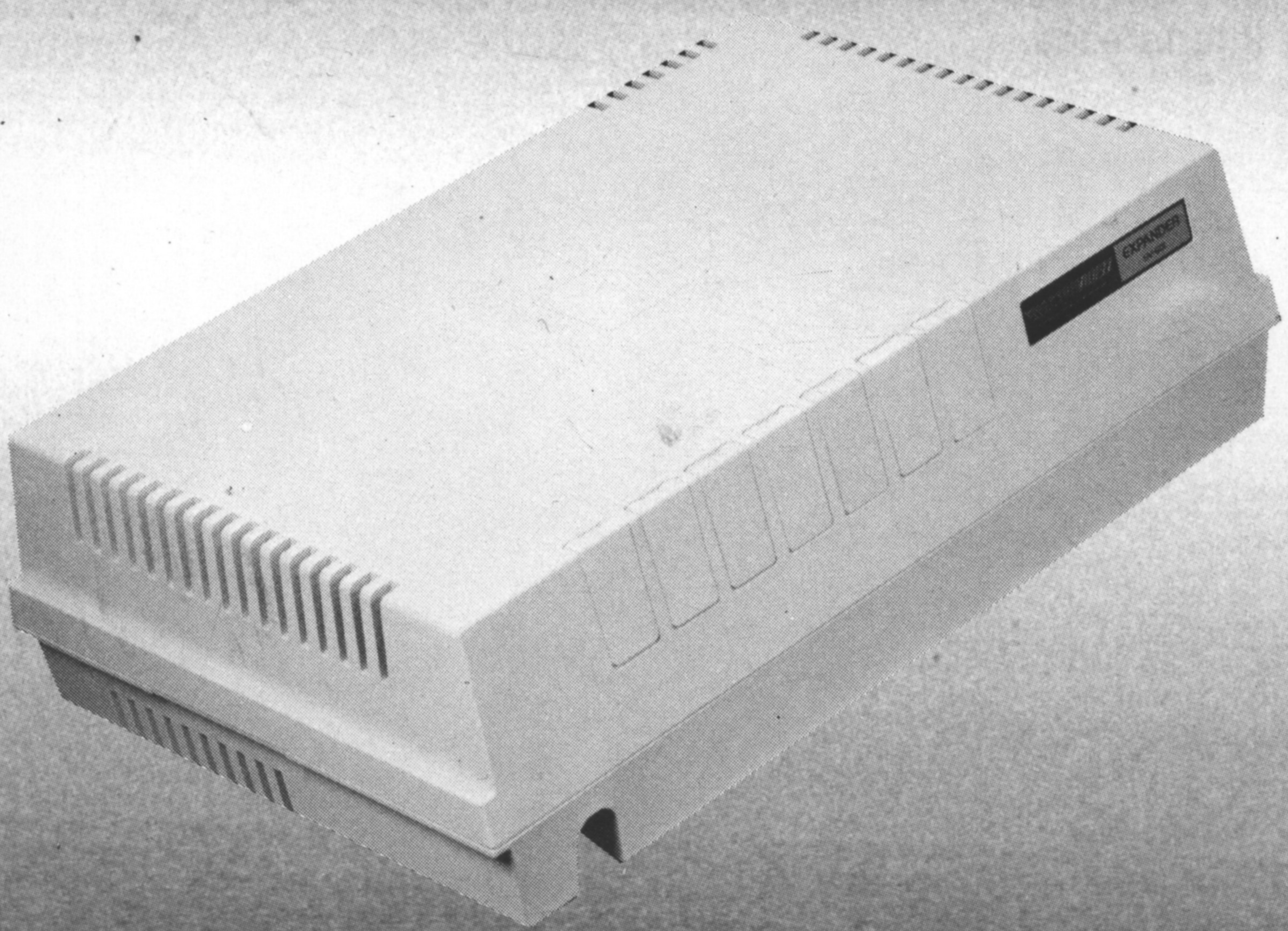


SV-601

SUPER EXPANDER

USER'S MANUAL



SPECTRAVIDEO™

SPECTRAVIDEO USER'S MANUAL STATEMENT

This equipment has been tested with a Class A computing device and has been found to comply with Part 15 of FCC Rules. See instruction manual. Operation in a residential area may cause unacceptable interference to radio and TV reception requiring the operator to take whatever steps are necessary to correct the interference.

WARNING

This equipment generates, uses, and radiates radio frequency energy and if not installed and used in accordance with the instruction manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.



INTRODUCTION

Spectravideo's Expander Unit SV-601 offers convenient and flexible expansion of the SV-318 or the SV-328 basic system. The Expander Unit connects directly to the system bus of the SV-318 or SV-328 via a 50-pin connector. With the addition of the SV-601, the SV-318 or SV-328 can interface with a maximum of 7 different peripheral devices at one time.

Before using your Expander Unit, please read this manual carefully.

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SPECTRAVIDEO SUPER EXPANDER SV-601 INSTRUCTION MANUAL

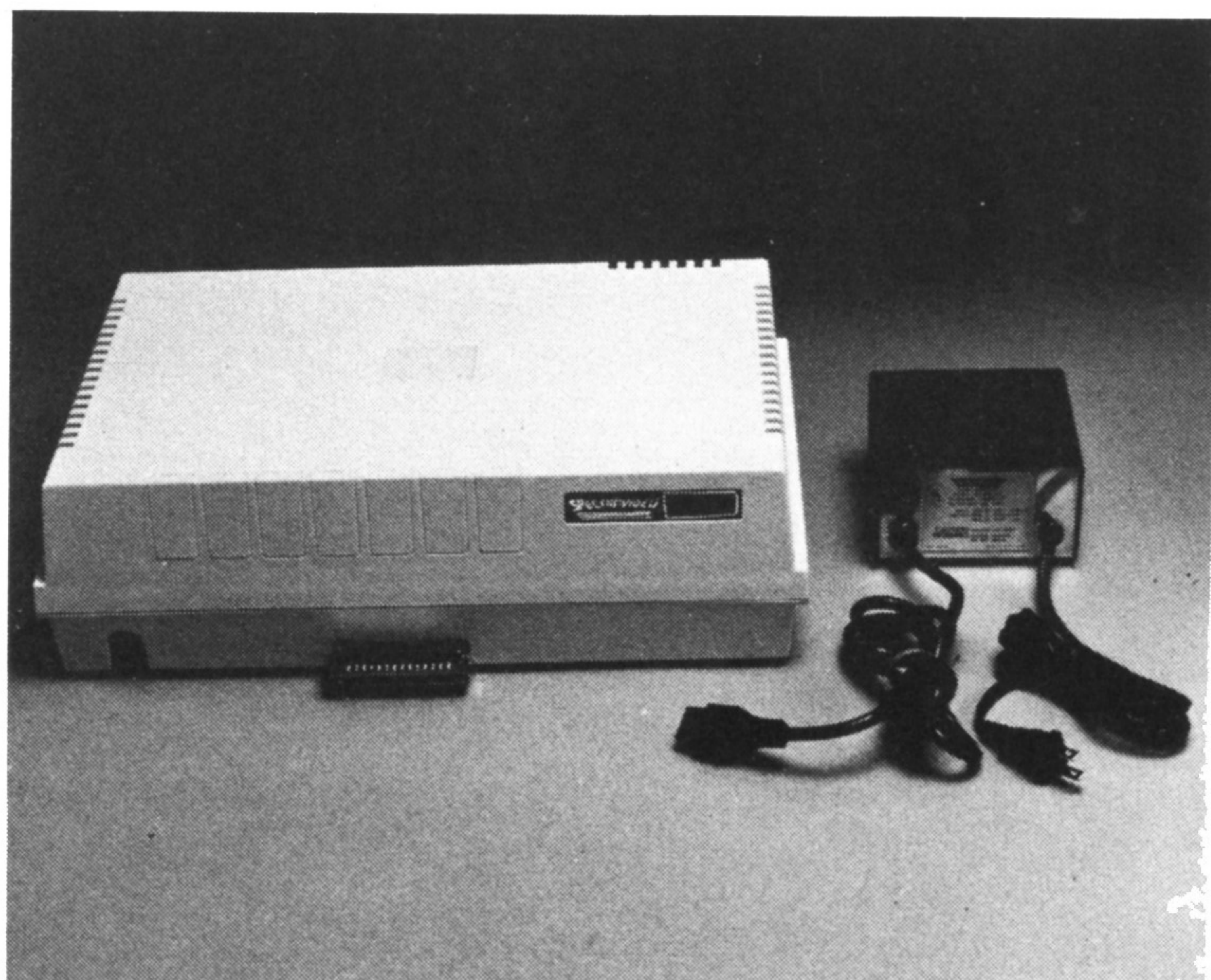
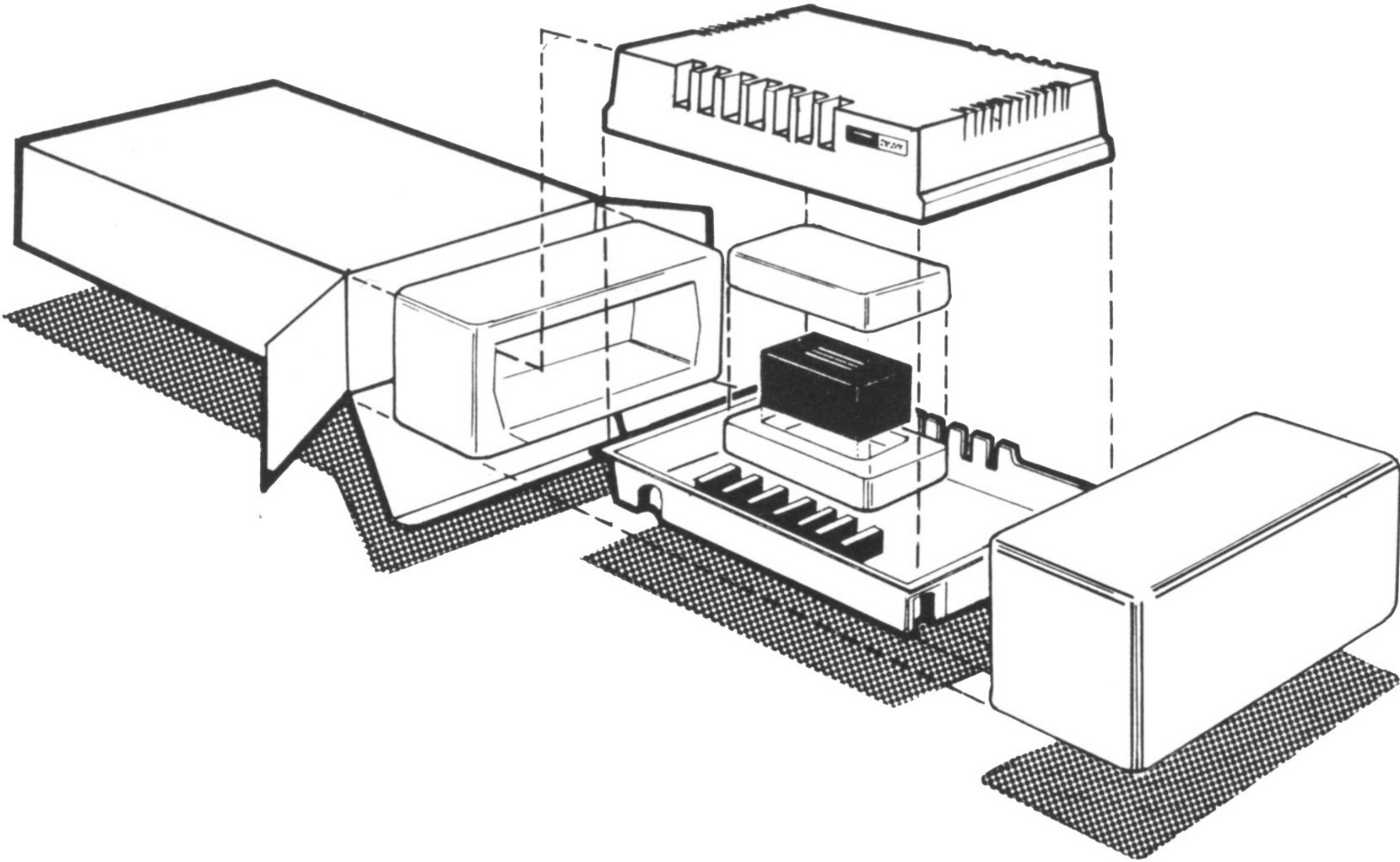
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1. ACCESSORIES

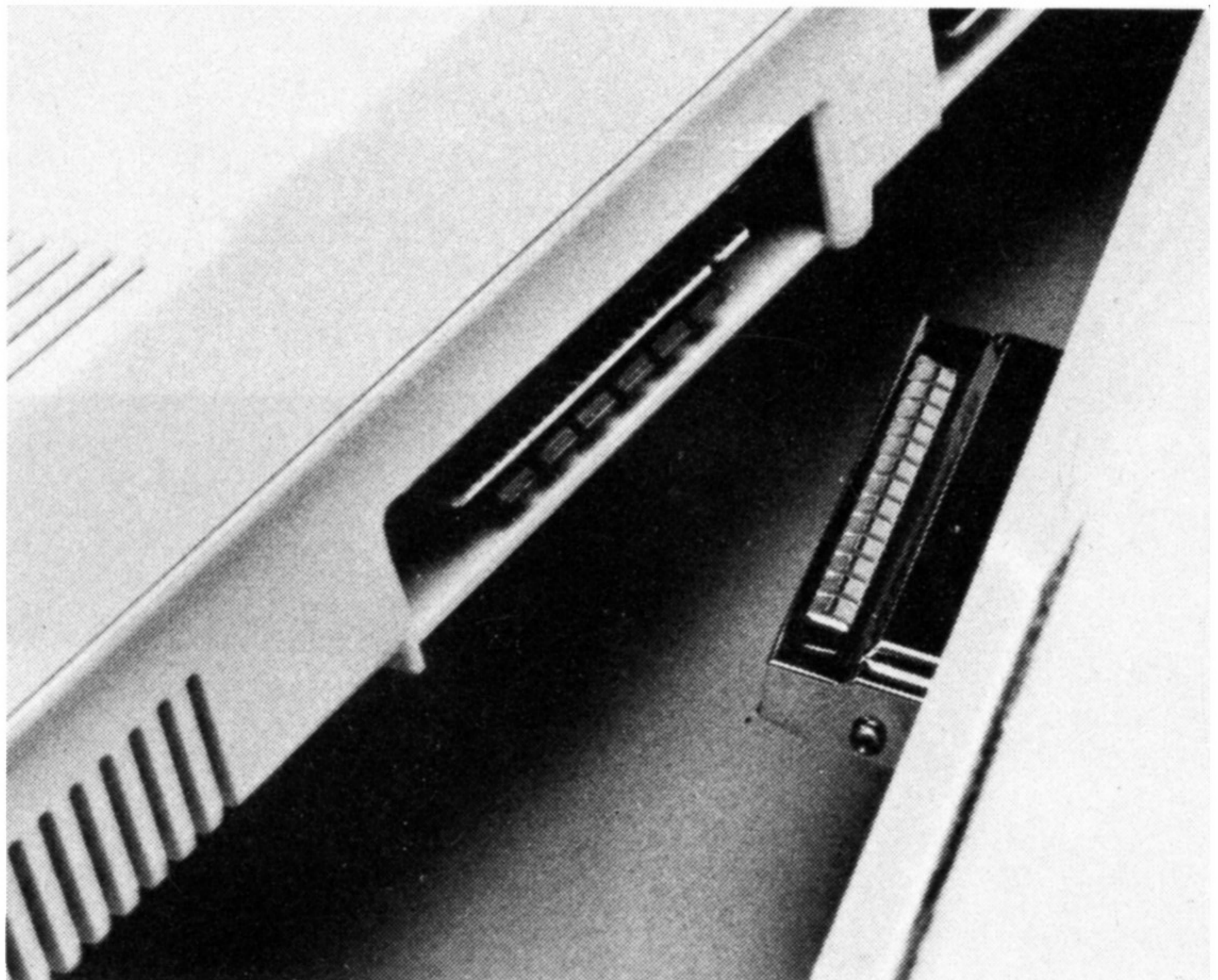
The SV-601 package should contain the following items:

- (A) Expander Unit with top and bottom
- (B) Transformer
- (C) Instruction Manual (this pamphlet)

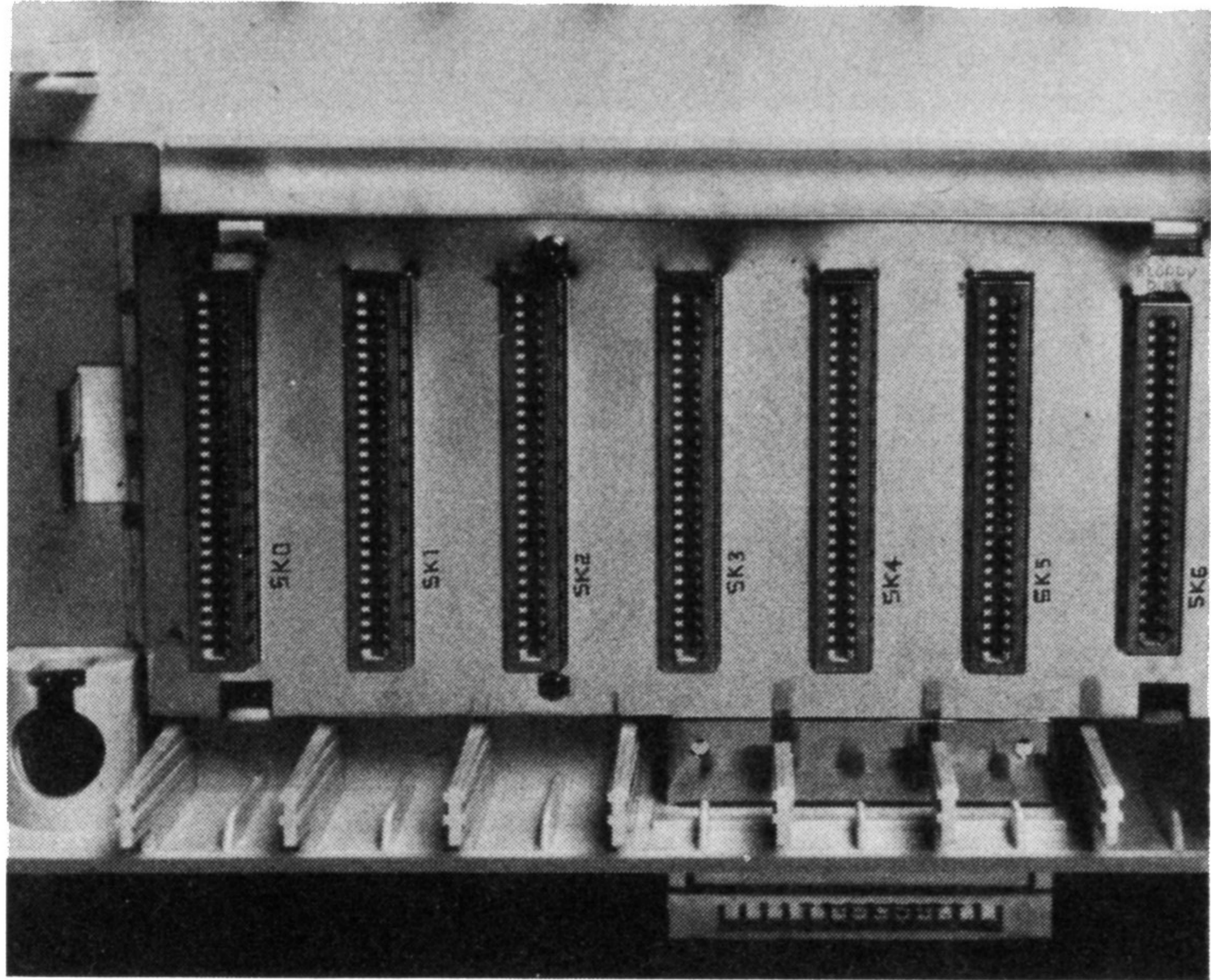


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- 2. MAIN FEATURES**
- (A) 7 slots to accommodate optional interface modules supplied in cartridge form.
 - (B) Sturdy housing capable of seating a 14" TV monitor (40 lbs; 20 kg).
 - (C) Convenient front panel read-out for selected add-on optional interface cartridges.
 - (D) Interface cartridge power-on LED indication.
 - (E) Storage space provided for TV modulator
 - (F) Top cover keeps out dirt.
 - (G) Provide power supply to the various optional interface cartridges that plug into it.

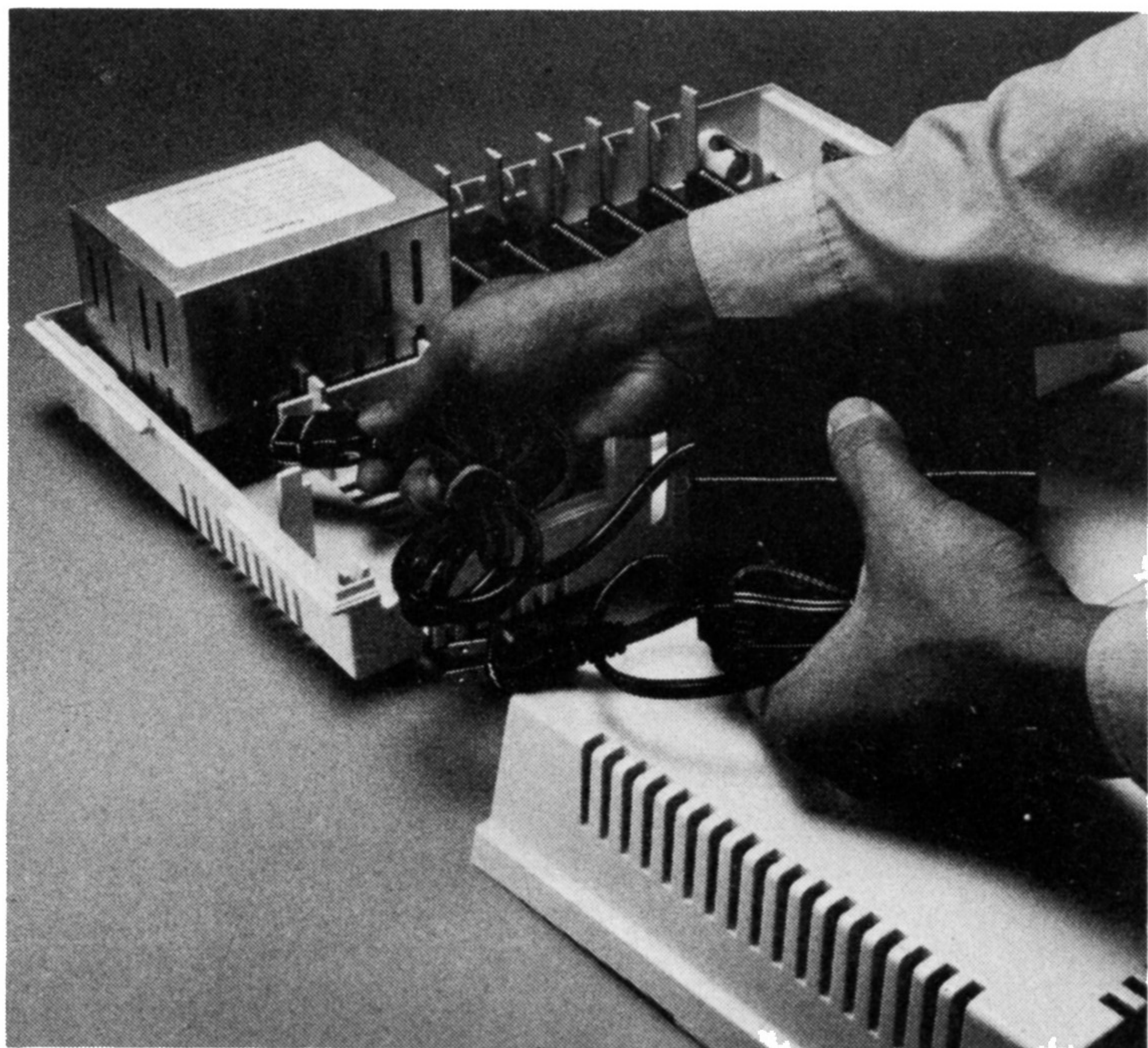
- 3. CONNECTIONS**
- (A) Connection to the SV-318 or SV-328 is made via a 50-pin female edge connector.



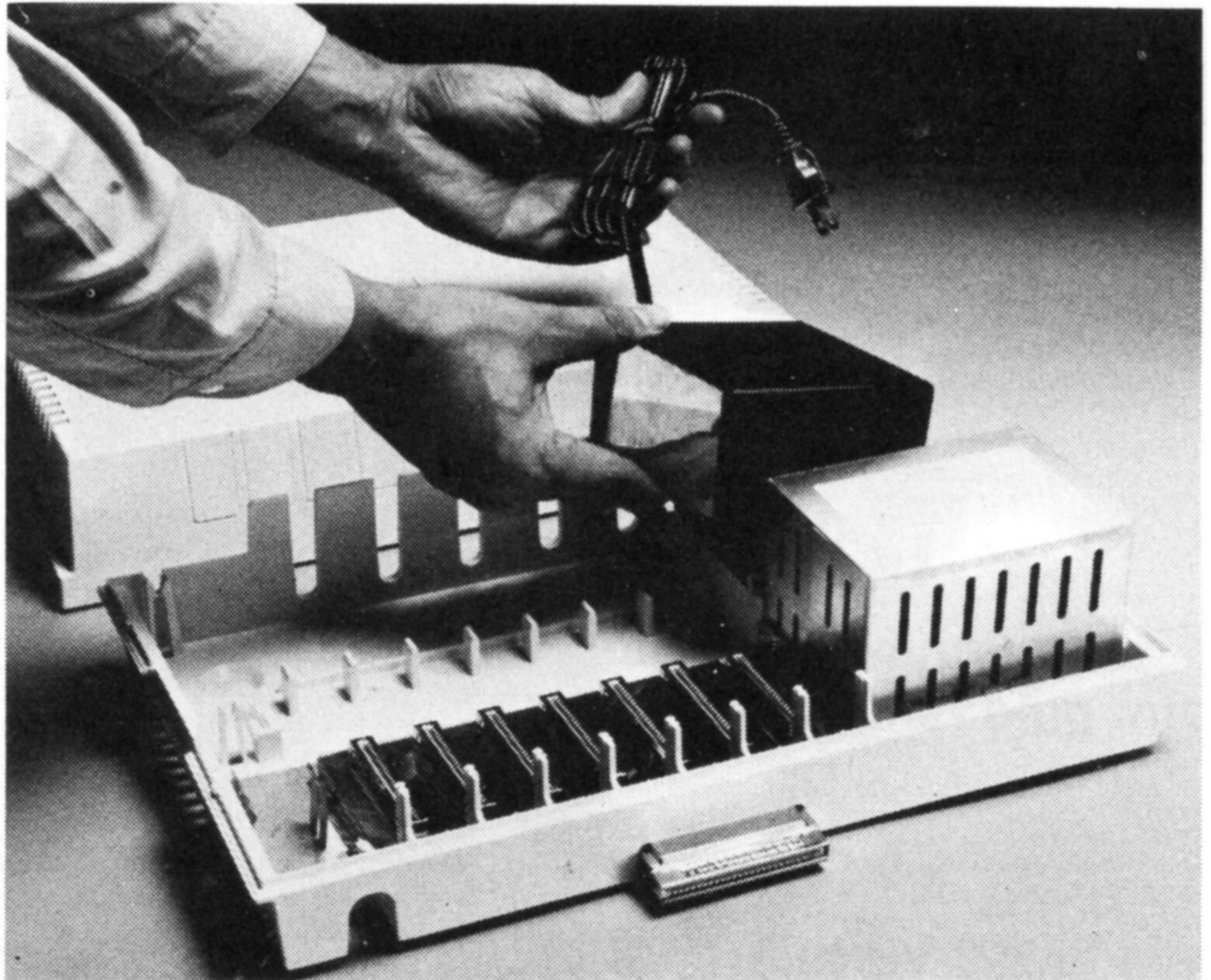
- (B) Optional interface cartridges can be inserted in any of the 6 slots, from SK0 to SK5 (50-pin socket). Only the Floppy Disk Drive Controller SV-801 is assigned to plug into the SK6 slot (44 pin socket).



- (C) Set the switch to the off position.
(D) Connect the transformer to the Expander Unit.

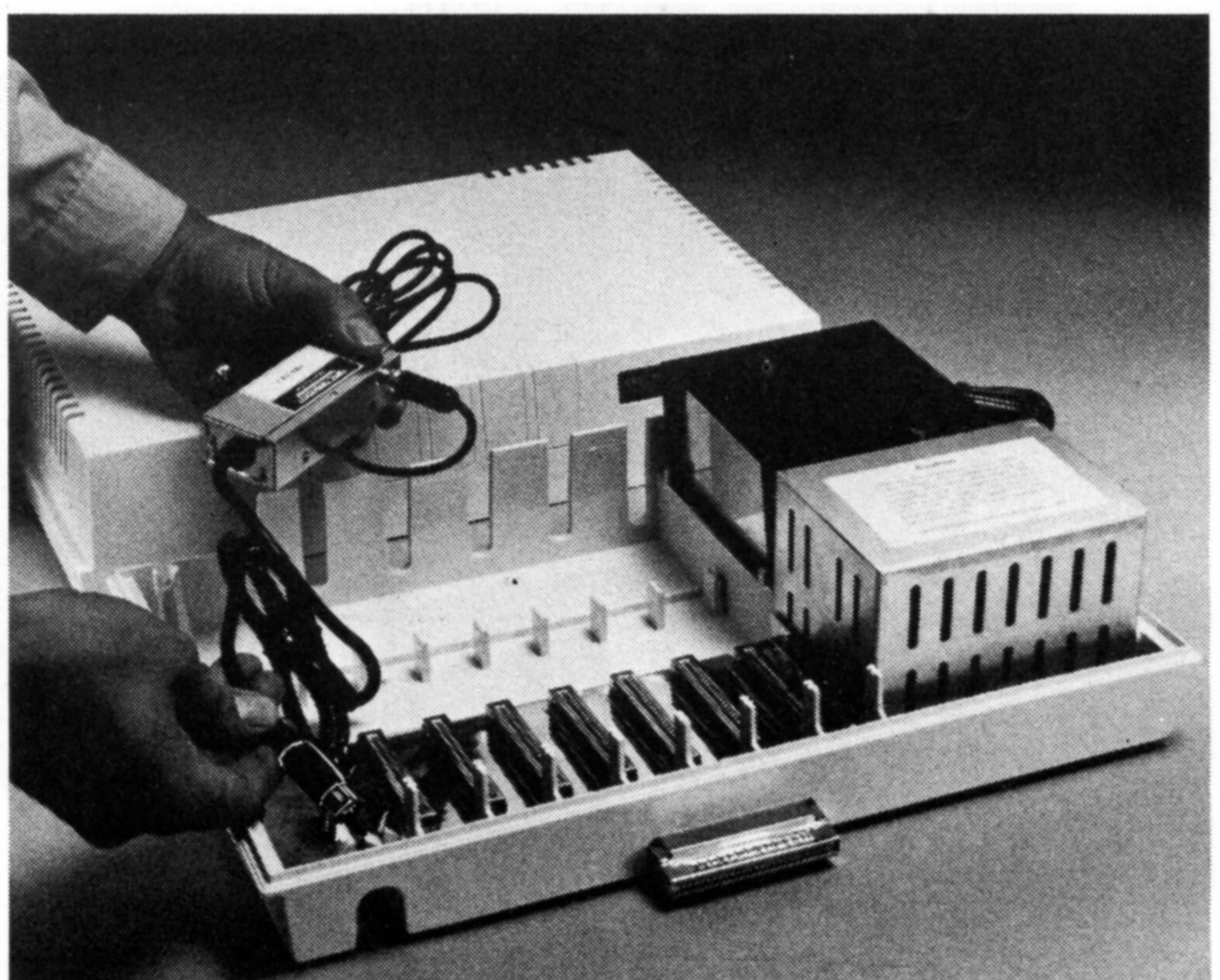


(E) Locate the transformer carefully inside the Expander Unit and dress the power cord to come out from the rear hole of the expander.

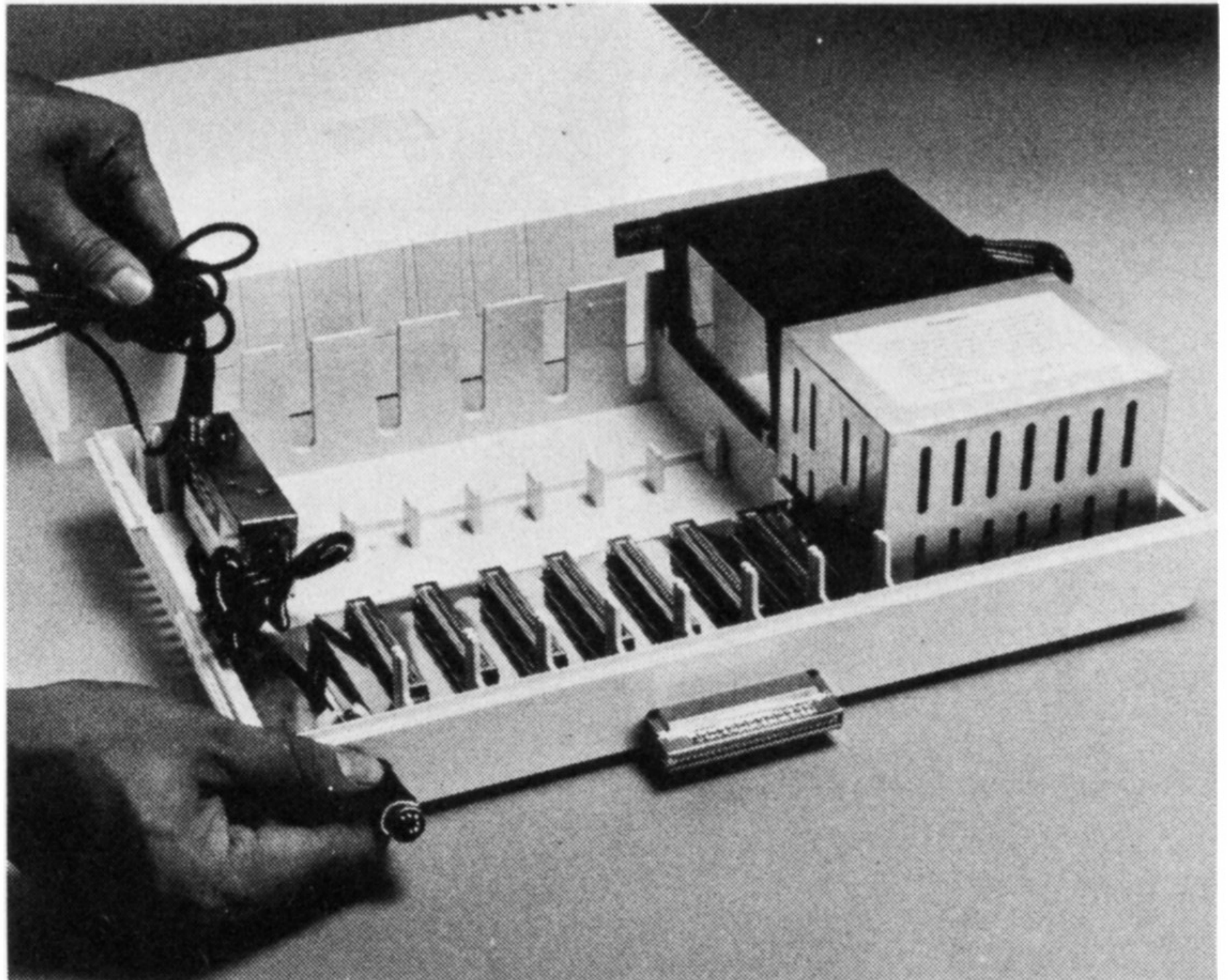


Installation of the Modulator and Interface Cartridge.

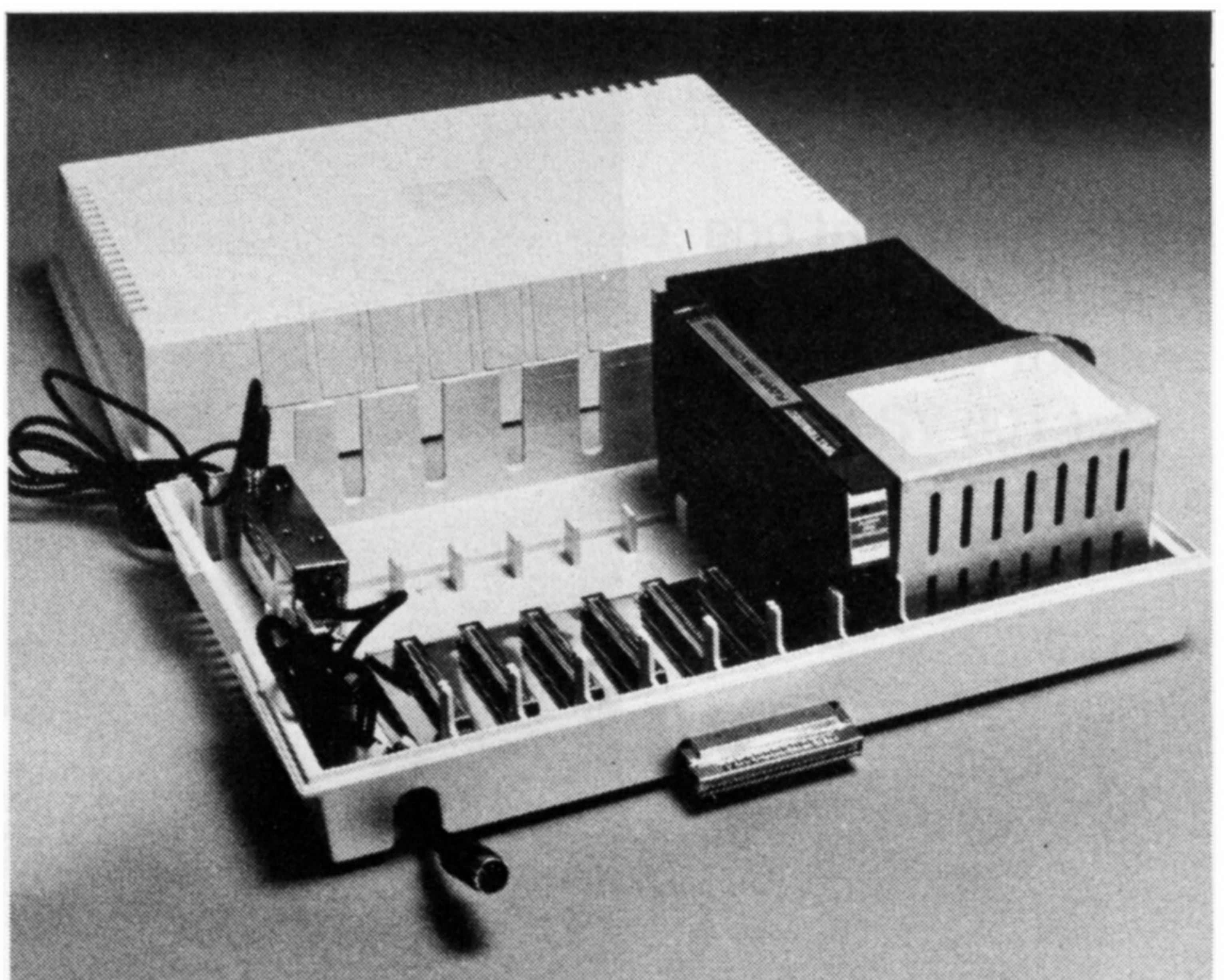
(F) Dress the computer connecting cable through the hole located at the left front of the expander as shown.



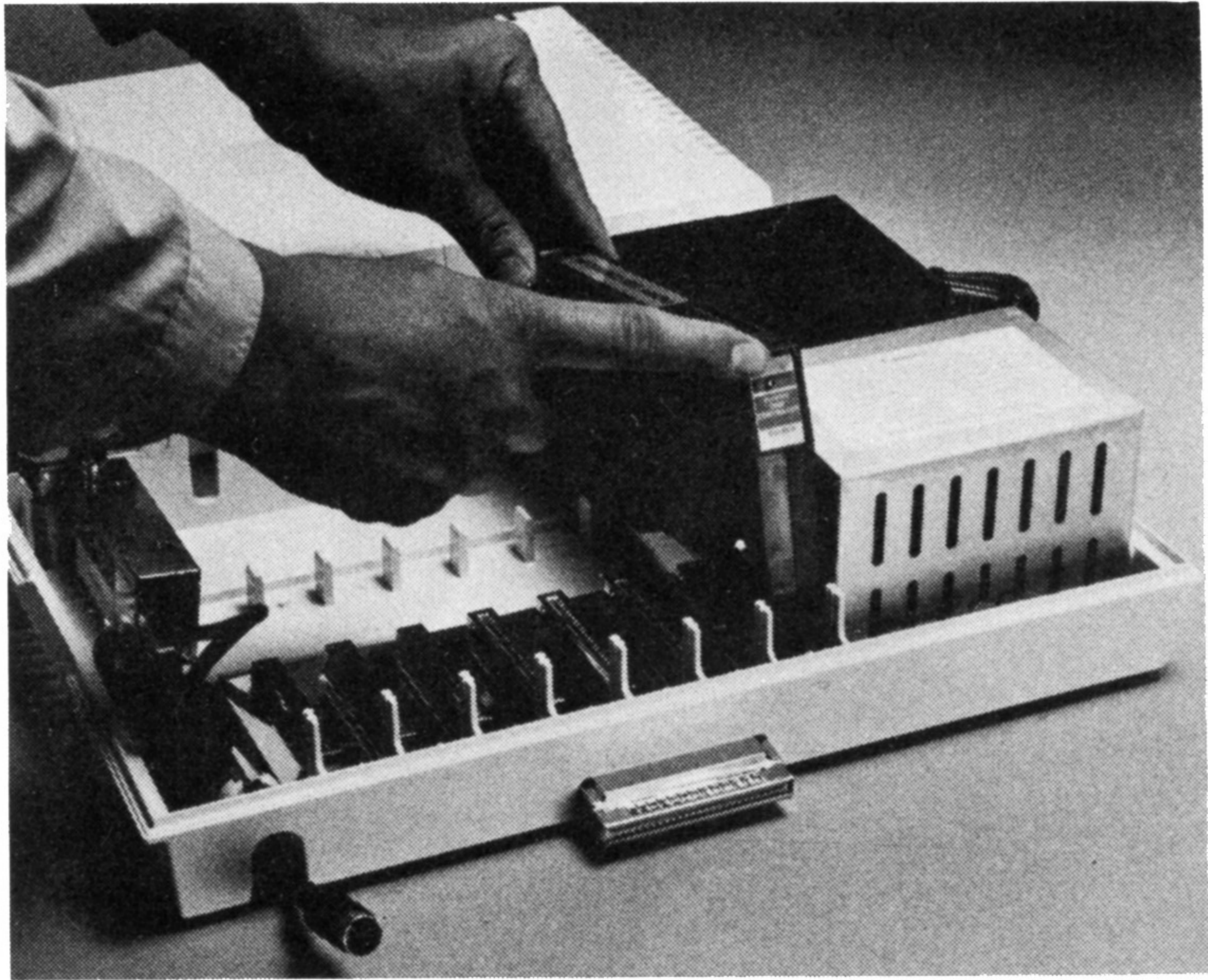
(G) Dress the TV connector cable to the rear hole of the expander as shown.



(H) The modulator and excess computer connecting cable is well positioned to give space for the installation of interface cartridge.

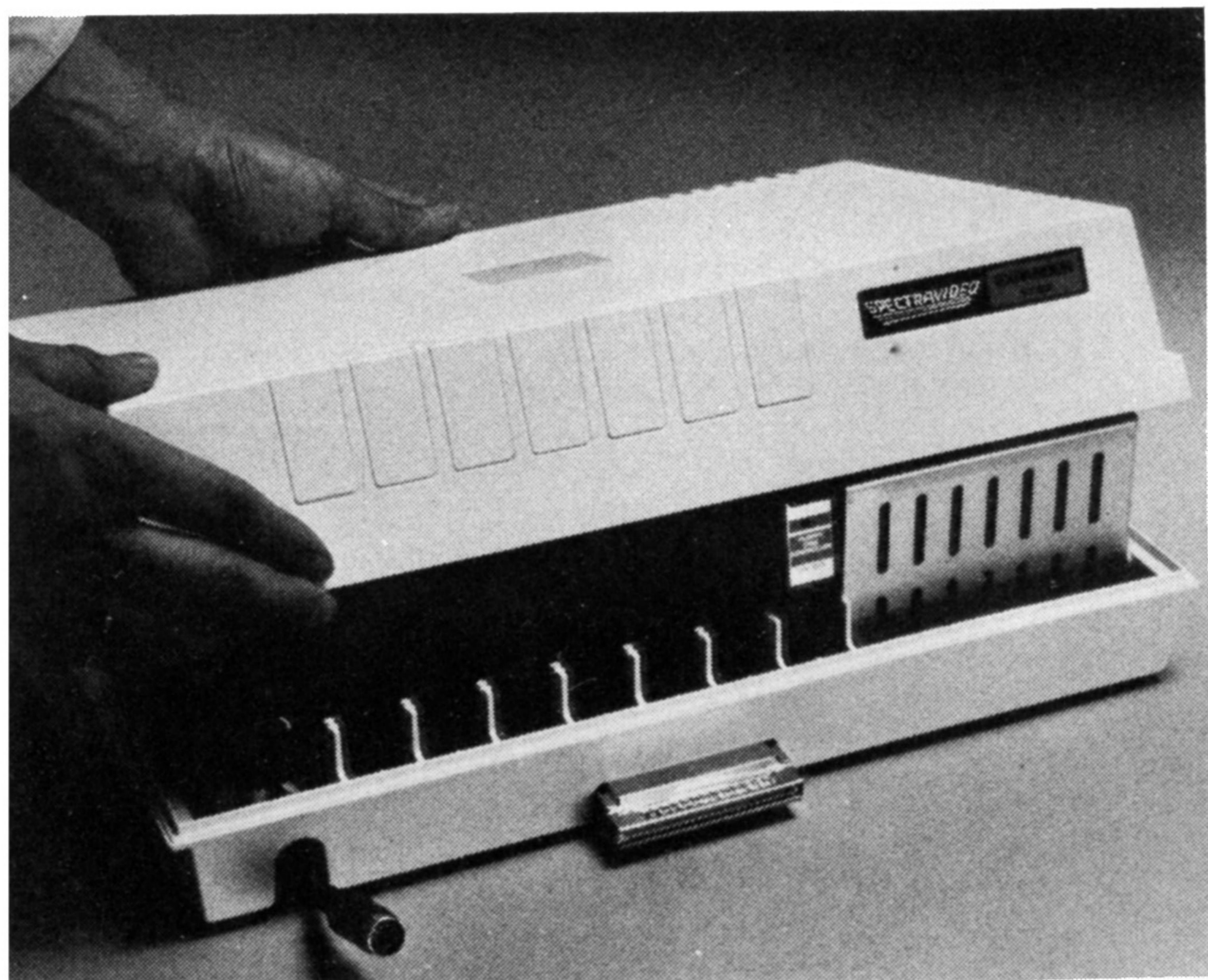


(I) Proper insertion of the cartridge is shown below:



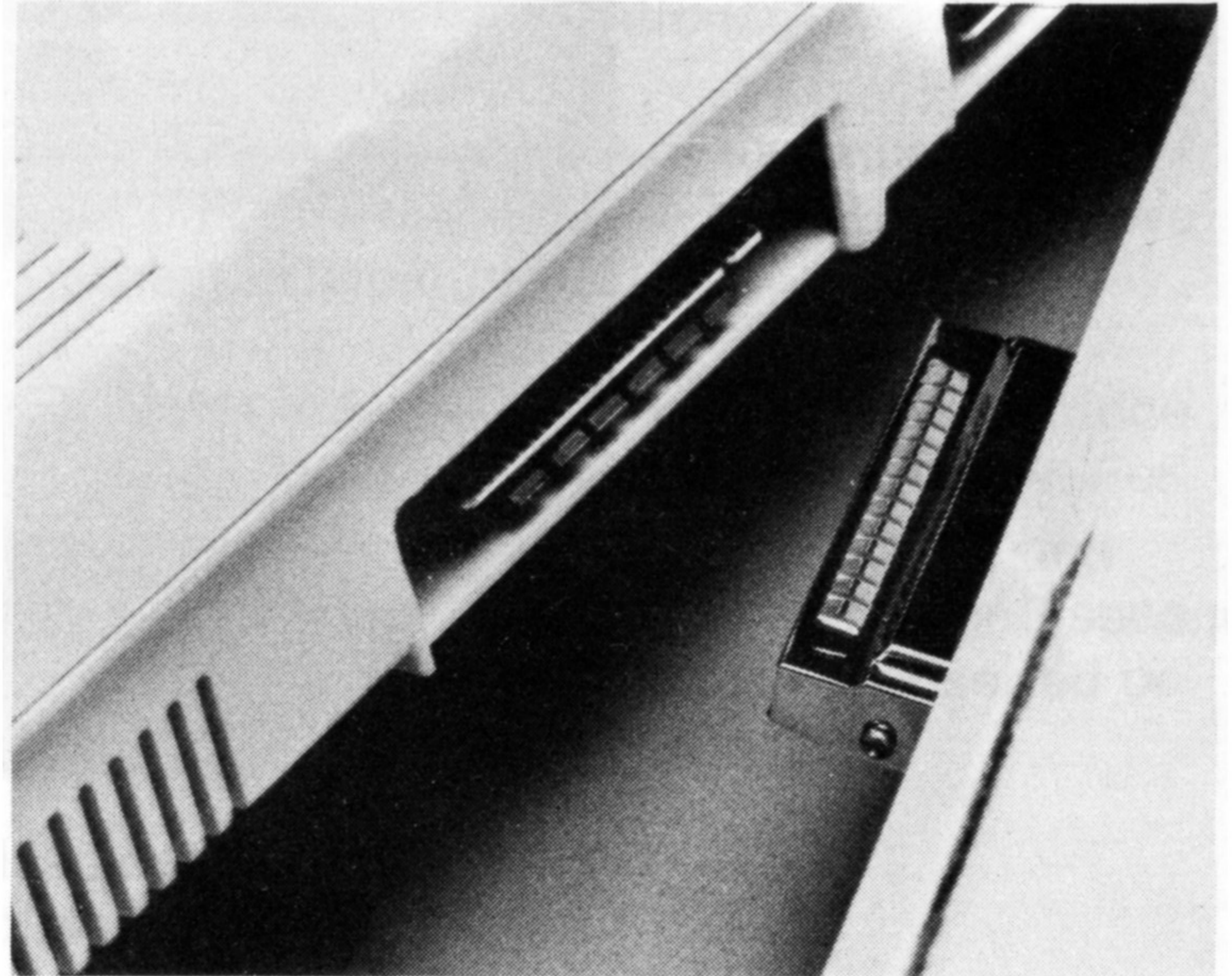
- (1) Hold cartridge in correct direction.
- (2) Gently guide into pin connectors.
- (3) Plug in firmly.

(J) Finally put back the expander top cover and connect the transformer to the AC Power Supply.



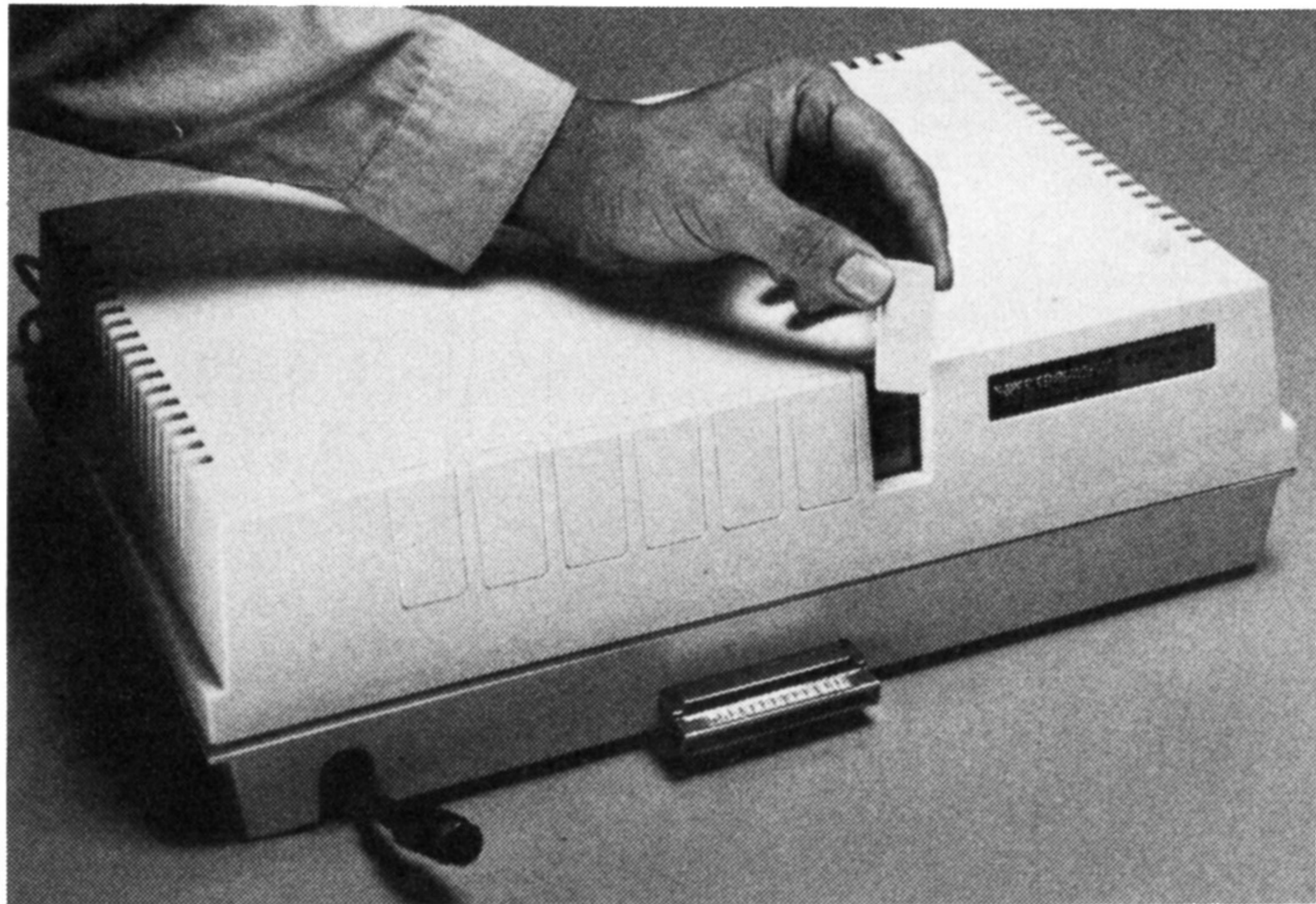
4. OPERATIONS

- (A) Connect the SV-601 to the SV-318 or SV-328 before turning on power.



- (B) Never switch on the power until all connections are properly made.
- (C) Before plugging cartridges into the Expander Unit, connect each peripheral you plan to use to its interface cartridge (e.g. Floppy Disk Drive Controller SV-801 to Floppy Disk Drive SV-902, Centronics Interface SV-802 to Printer SV-901, etc.).
- (D) Remove the top case, and insert the desired cartridges in any of the slots from SK0 to SK5. (SK6 is assigned exclusively for the Floppy Disk Drive Controller SV-801)

- (E) After plugging in the cartridge(s), remove the windows by the upper case, where the slots are occupied.



- (F) Put the top case back onto the Expander Unit. The identification labels of the cartridges can be observed through the windows.
- (G) Switch on the power. The power-on LED indicator will illuminate.
- (H) All operations of interface cartridges and associated peripherals are controlled by the host computer SV-318 or SV-328. For details refer to the individual interface cartridge manuals.

5. CAUTIONS

- (A) The computer and the expander must be placed on the same table level to ensure good contact of the edge connector between the two devices.
- (B) Moving either the computer or the expander when power is ON may cause short circuit of the connector bus and eventually the computer and peripheral interface modules can be burnt.
- (C) Connect the expander power supply only to the rating voltage specified on the power transformer.

[REDACTED]

(D) Never install or use the expander in the following environment:

Where it is heated by direct sun light.

Where there is moisture.

Where there is vibration.

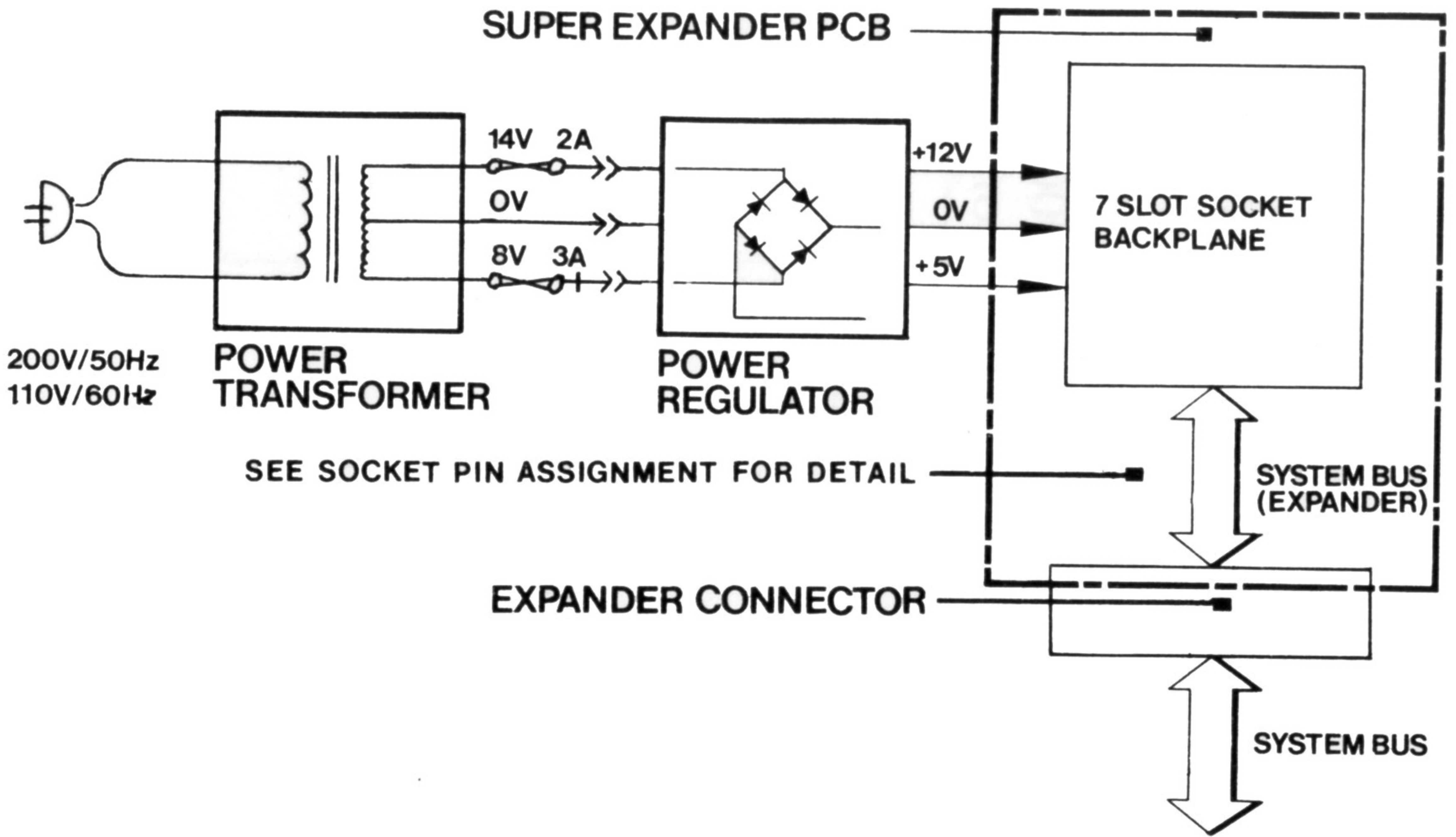
(E) All ventilation holes of the expander and computer must not be blocked to improve heat dissipation.

(F) Never insert or remove interface cartridge into the expander when power is ON. For the sake of safety, it is recommended that the power be switched off for 3 seconds before interface cartridge is inserted or removed from the expander.

6. SOCKET PIN ASSIGNMENT

PIN	NAME	PIN	NAME
1	+5V	2	$\overline{\text{CNTRL2}}$
3	+12V	4	-12V
5	$\overline{\text{CNTRL1}}$	6	$\overline{\text{WAIT}}$
7	$\overline{\text{RST}}$	8	CPUCLK
9	A15	10	A14
11	A13	12	A12
13	A11	14	A10
15	A9	16	A8
17	A7	18	A6
15	A5	20	A4
21	A3	22	A2
23	A1	24	A0
25	$\overline{\text{RFSH}}$	26	$\overline{\text{EXCSR}}$
27	$\overline{\text{M1}}$	28	$\overline{\text{EXCSW}}$
29	$\overline{\text{WR}}$	30	$\overline{\text{MREQ}}$
31	$\overline{\text{IORQ}}$	32	$\overline{\text{RD}}$
33	D0	34	D1
35	D2	36	D3
37	D4	38	D5
39	D6	40	D7
41	CSOUND	42	$\overline{\text{INT}}$
43	$\overline{\text{RAMDIS}}$	44	$\overline{\text{ROMDIS}}$
45	$\overline{\text{BK32}}$	46	$\overline{\text{BK31}}$
47	$\overline{\text{BK22}}$	48	$\overline{\text{BK21}}$
49	GND	50	GND

7. CIRCUIT SCHEMATIC

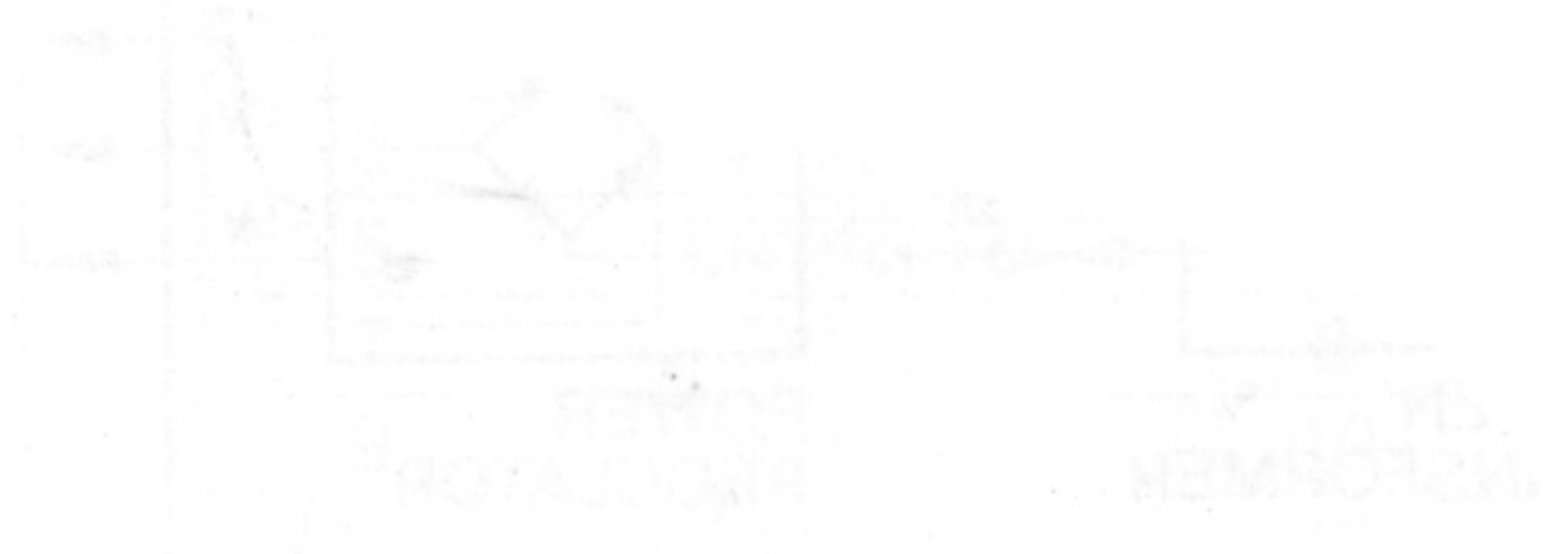


SV 318 / 328

8. SPECIFICATIONS

SLOTS	Seven sockets for optional interface cartridges
INPUT	One 50-pin socket to the Spectravideo Bus
POWER REQUIREMENTS	115V 60Hz/200V 50Hz/240V .50Hz
OPTIONAL INTERFACES (Cartridges)	SV701 Modem SV801 Floppy Disk Controller SV802 Centronic Printer Interface SV803 16K RAM cartridge SV805 RS232 Interface SV806 80 Column card SV807 64K RAM Cartridge SV901 Printer with Interface Card
DIMENSIONS(mm)	405(W) × 255(D) × 117(H)
WEIGHT	1.5 kg

1800 1000 5000



POWER REGULATOR

TRANSFORMER

HEIGHT

DEPTH

POWER

REQUIREMENTS

OPTIONAL

INTERFACES

(Compatibility)

- SV701 Monitor
- SV801 Floppy Disk Controller
- SV802 Control Printer Interface
- SV803 1MB RAM cartridge
- SV808 FDS32 interface
- SV806 80 Column card
- SV807 8MB RAM Cartridge
- SV801 Printer with interface Card

DIMENSIONS (mm) ABOVE x DEPTH x HEIGHT

WEIGHT