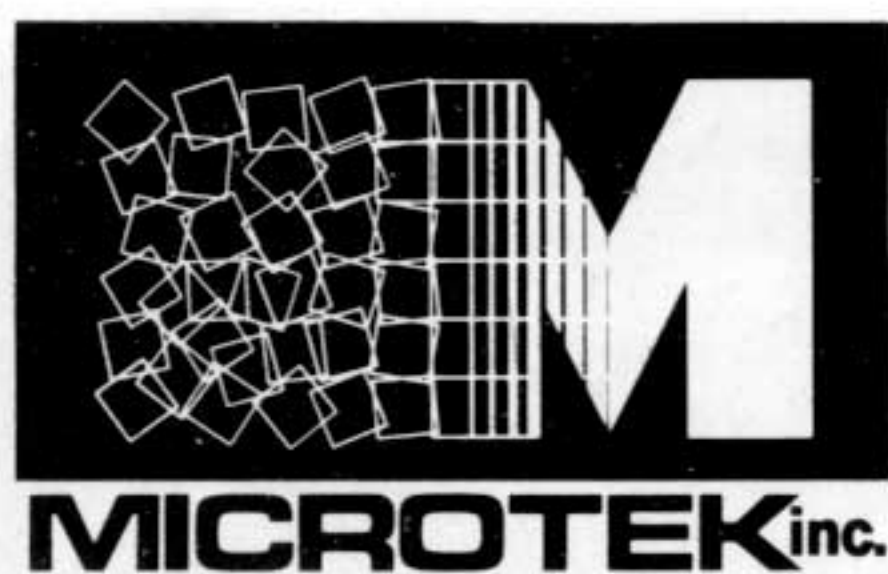




# MT-32



## INSTRUCTION MANUAL

# INSTALLATION

The MT-32 attaches to your TRS-80\* without the need to open up the keyboard unit. Attaching or detaching the MT-32 takes about 60 seconds. This is important if you wish to use Radio Shack for service on your TRS-80 unit. Should you experience any problems in operating your system, disconnect the MT-32 and verify which unit is not functioning.

The MT-32 requires a 16K TRS-80. If you have a 4K machine, it must be upgraded to 16K BEFORE the MT-32 will operate correctly. If you currently have a 16K machine, proceed with the installation instructions.

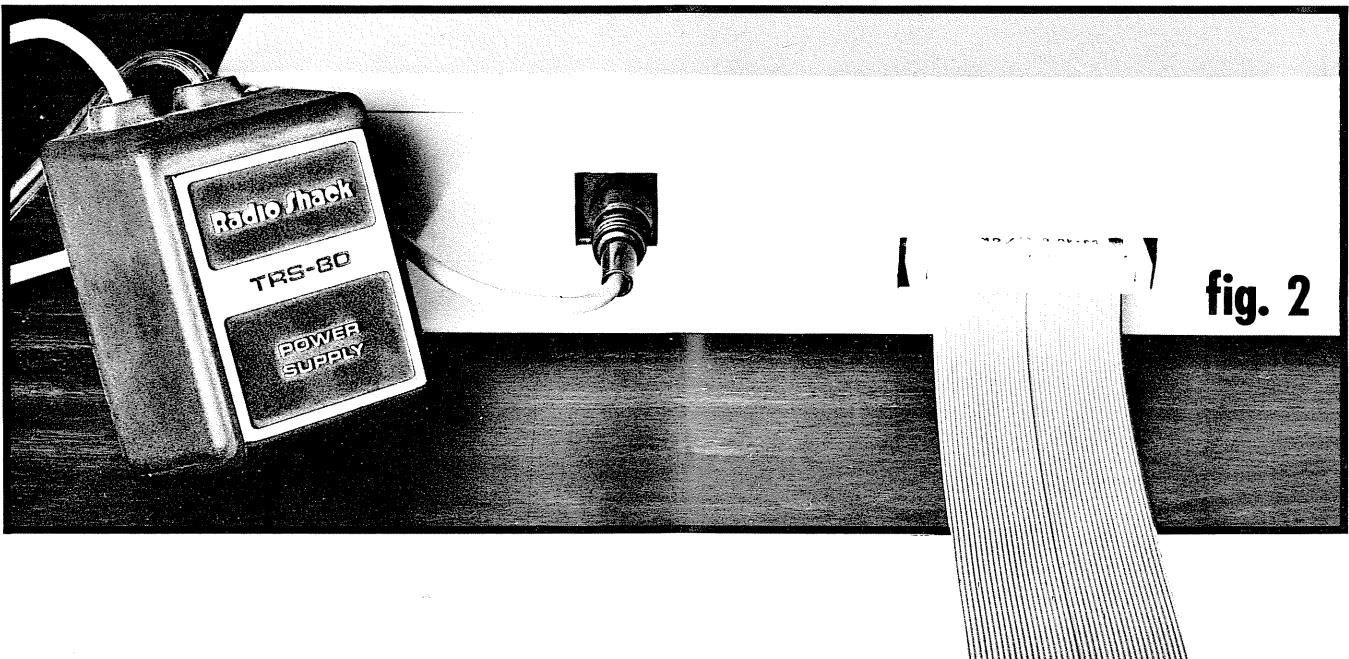
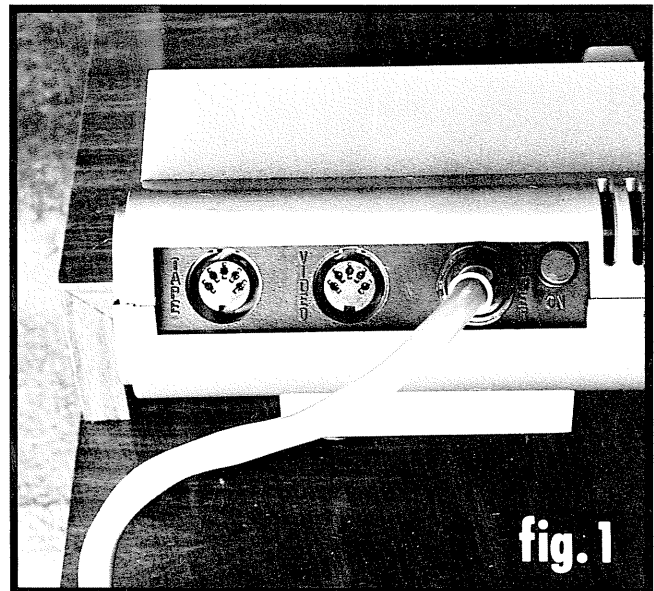
The MT-32 is designed to be placed directly behind the TRS-80 keyboard, with the TV monitor placed on top of it.

There are two cables coming out of the bottom of the MT-32. One is a 40 pin edge connector, the other a four wire cable with a DIN connector. The edge connector plugs into the expansion bus on the TRS-80 keyboard. This connector MUST be attached so that the ribbon cable exits the BOTTOM of the connector body. The second cable has the DIN connector, and is the power cord. It plugs into the back of the TRS-80 in the same place your original power supply attached. The only other connection to be made is the TRS-80 power supply which must be plugged into the mating connector on the back of the MT-32. Due to the design of the MT-32, an improper connection is almost impossible, but please double check all connections BEFORE POWER UP!

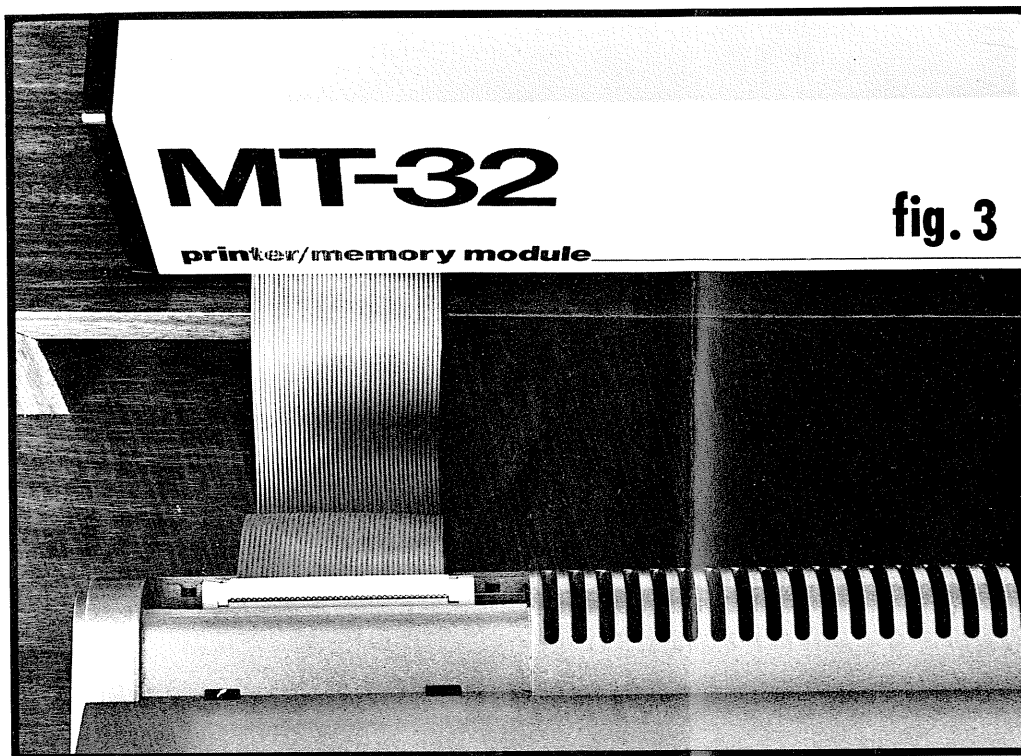
The MT-32 will function exactly like the expansion interface. It requires no special software routines or hardware modifications. The TRS-80 on/off switch on the back of the keyboard should be left in the on position, and all future power ups and downs should be accomplished by using the power switch on the front of the MT-32. REFER TO THE STEP BY STEP INSTRUCTIONS FOR INSTALLATION.

# PARALLEL PRINTER INTERFACE

The MT-32 is equipped with the circuitry to provide parallel output signals to any centronics compatible parallel interface printers such as the MT-80P. To connect a printer, attach the edge connector from the printer cable to the bus on the back of the MT-32. IT IS VERY IMPORTANT when using a non-MICROTEK cable, that pin #1 on the cable be aligned with pin #1 on the bus connector. When looking at the back of the MT-32, pin #1 is on the top and at the extreme RIGHT of the connector. Cables supplied by MICROTEK are keyed to prevent any incorrect installation. Once installed, the standard LLIST and LPRINT commands from basic will output data to the Printer.







# STEP BY STEP INSTALLATION INSTRUCTIONS

1. UNPLUG THE TRS-80 POWER SUPPLY FROM THE WALL AND THE KEYBOARD.
  2. TEMPORARILY SET THE MONITOR ASIDE AND POSITION THE MT-32 DIRECTLY BEHIND THE TRS-80.
  3. CAREFULLY PLUG THE 40 PIN RIBBON CABLE CONNECTOR FROM THE MT-32 INTO THE TRS-80 EXPANSION BUS. THE FLAT RIBBON SHOULD LEAVE THE CONNECTOR IN A DOWNWARD DIRECTION. (FIG. #3)
  4. PLUG THE DIN CONNECTOR CABLE FROM THE MT-32 INTO THE RECEPTACLE THAT PREVIOUSLY CONTAINED THE CONNECTOR FROM THE POWER SUPPLY. (FIG. #1)
- NOTE: IT IS VERY IMPORTANT THAT THIS CONNECTION IS MADE CORRECTLY!
5. PLUG THE DIN CONNECTOR FROM THE TRS-80 POWER SUPPLY IN THE RECEPTACLE ON THE REAR OF THE MT-32 (FIG. #2)
  6. MAKE SURE THE MT-32 POWER SWITCH IS IN THE OFF POSITION (OUT).
  7. TURN THE TRS-80 POWER SWITCH ON (DEPRESSED).
  8. TURN THE POWER SWITCH OF THE MT-32 ON.

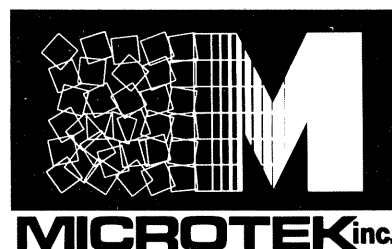
YOUR MONITOR SCREEN SHOULD NOW READ "MEMORY SIZE". HIT THE RETURN KEY AND TYPE "PRINTMEM". THE COMPUTER WILL RESPOND WITH THE FOLLOWING:

MT-32A	0	RAM	15572
MT-32B	16K	RAM	31956
MT-32C	32K	RAM	48340

FOR THOSE OF YOU WHO PLAN TO INSTALL YOUR OWN RAM, PLEASE REFER TO THE FOLLOWING:

FIRST 16K RAM	SOCKETS U5 TO U12
ADDITIONAL 16K RAM	SOCKETS U13 TO U20

IT IS VERY IMPORTANT THAT THE CHIPS (4116/4215) BE INSTALLED CORRECTLY ACCORDING TO THE CODED NOTCH. DAMAGE WILL RESULT TO BOTH THE CHIPS AND THE MT-32 IF THEY ARE INSTALLED WITH CODE NOTCHES NOT MATCHING.

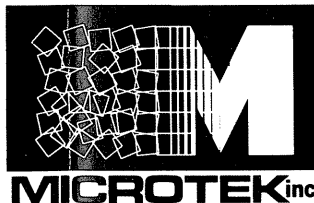


# WARRANTY

MICROTEK, INC. warrants the Model MT-32 Printer/Memory Module to be free from defects in material and workmanship and to perform in accordance with applicable specifications for 12 months from date of purchase.

During the warranty period, MICROTEK, INC. will provide free service, including parts, labor, and transportation back to the customer for any malfunction of its products which, upon authorization from MICROTEK, are returned to MICROTEK, transportation charges prepaid. Before returning a product for repair, a Return Authorization Number must be obtained from MICROTEK (714-278-0633). A complete description of the reason for return must accompany the product. A nominal handling charge will be made on units for which a Return Authorization Number is not obtained.

This warranty is void if the product is subjected to misuse, neglect, accident, or improper installation or application. This warranty gives you specific legal rights, and you may have other rights which vary from state to state. Warranty is void unless registered within 15 days of receipt of unit.



9514 Chesapeake Drive  
San Diego, CA 92123  
Tel: (714) 278-0633  
Outside Calif. call toll free: 800-854-1081  
TWX: 910-335-1269