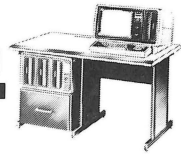


Radio Shack®

TRS-80^{T.M.} Model II
Disk Expansion System

26-4160 One-Drive Expansion System
26-4161 Two-Drive Expansion System
26-4162 Three-Drive Expansion System
26-4163 Disk Drive Kit (adds on to your 26-4160 or 26-4161)

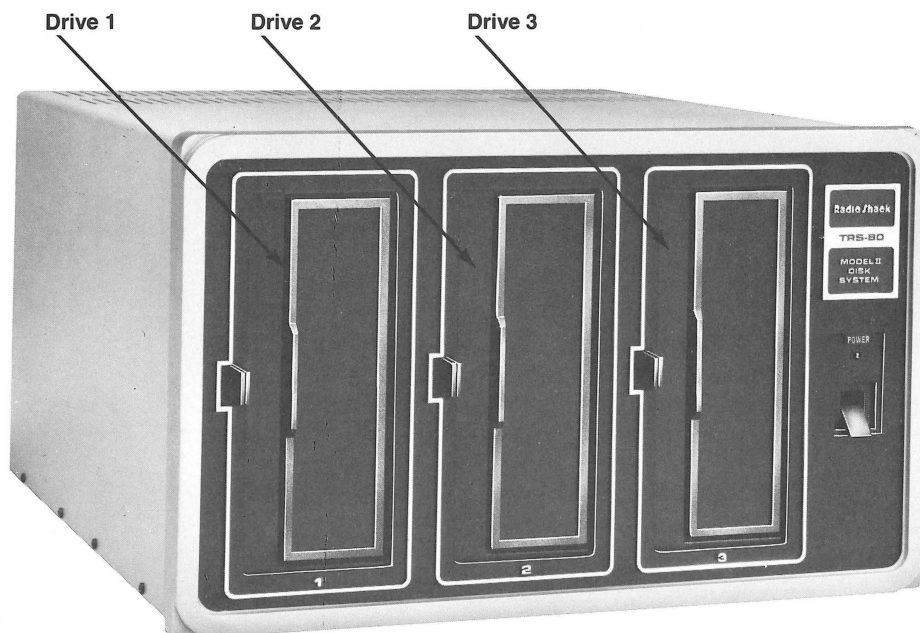




General Information

The Model II TRS-80 Disk Expansion System consists of a metal case containing a power supply with special built-in filters, cables, and one, two, or three disk drives. If you purchase a one-drive or two-drive Disk Expansion System, you can buy additional drives (Catalog Number 26-4163) for it later.

Each disk drive which is added to the Disk Expansion System increases on-line storage capacity by half a million bytes. Therefore, a Model II Computer with a fully equipped Disk Expansion System – four drives in total – will offer two million bytes of mass storage.



Disk Expansion System with three drives.



TRS-80™ MODEL II

Setting Up

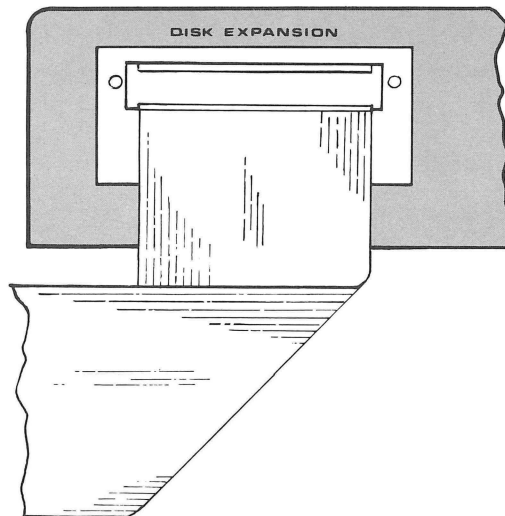
Once you've removed the Disk Expansion System from its packing carton, place it near the Computer in any convenient arrangement. If you own a 26-4301 Model II System Desk, place the Disk Expansion System in the drive bay for maximum compactness and convenience.

Each drive in the Expansion System has its own built-in cooling fan. For proper operation, be sure to provide at least one inch clearance along the top and rear of the unit to ensure adequate circulation of air.

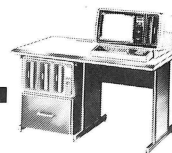
The Computer and Disk Expansion System should both be off. Now plug the Disk Expansion System's power cord into a 120 VAC power source. **Do not attempt to defeat the safety-ground.** If a 3-prong outlet is not available, use a 3-to-2 adapter and ground the adapter.

You are now ready to attach the Disk Expansion System to your Model II TRS-80. Notice the **DISK EXPANSION** connector on the rear of the Model II Display Console. If a terminator plug is connected, remove it. Also notice the ribbon cable that exits from the back of the Disk Expansion System. Plug the 50-pin connector on the end of the ribbon cable into the **DISK EXPANSION** connector. The cable must exit **from the bottom of the connector**, as illustrated.

Note: If you want to operate the Computer **without** the Disk Expansion System, you must re-install the terminator plug on the Computer.



Proper orientation of connector on back panel of Display Console.



Powering Up

1. You must leave the Disk Expansion System on at all times the Computer is in operation, even if the extra drives are not in use.
2. With **all drives empty**, turn on the Computer (Display Console). The message "INSERT DISKETTE" should appear on the display within 10 seconds. If the message doesn't appear, RESET the Computer. If it still doesn't appear, check the Brightness adjustment (the knob is in the recessed area at the base of the Display Console). If the message still doesn't appear, turn the Computer off and check all connections. Wait at least 15 seconds before starting over with the power-up sequence.
3. When "INSERT DISKETTE" is displayed, turn on the Disk Expansion System and all other peripherals. The red LED above the Expansion System power switch will light up, indicating power is on.
4. Insert a TRSDOS diskette into drive 0 and close the drive door. The Computer will start the operating system.
5. Before turning the Computer System off, remove all diskettes from all drives. Turn off the entire System. Wait at least 15 seconds before turning the System on again. Always start power-on at step 1 above.

Never remove a diskette while the system is writing to a disk or while it contains open files. Otherwise you could lose the contents of the entire diskette.

Since the disk expansion system drives do not have in-use indicators, you should write your programs so they signal the operator via the display that a drive is in use — especially if the operator will be required to swap diskettes during program execution.

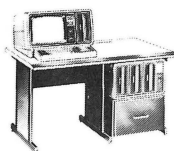
Diskettes

The Disk Expansion System uses Radio Shack 8" single-sided diskettes (Catalog Number 26-4905). Radio Shack subjects its diskettes to extensive and thorough quality-control procedures before they are released for sale. Some other manufacturers may not follow this practice; therefore, Radio Shack cannot guarantee proper diskette operation when non-Radio Shack diskettes are used in the Computer or Disk Expansion System.

Additional Drives

If you should decide to purchase an additional drive or drives for your Disk Expansion System, bring the unit to your local Radio Shack for upgrading.

Caution: The Disk Expansion System is designed for use **only** with Model II add-on drives (26-4163). Do not install any other disk drive unit.



TRS-80™ MODEL II

In Case of Trouble . . .

If you're having problems with your Disk Expansion System, consult the table below. If nothing helps, the unit will need to be serviced. Bring it to your local Radio Shack for repairs and service.

PROBLEM	POSSIBLE CAUSE
Power won't come on.	Not plugged in properly. Fuse needs to be replaced.
Computer won't operate when Expansion System is connected.	Connector not properly attached to Computer. Expansion System power off.
Frequent disk I/O errors.	Bad diskette, try another one.
Error Message during Power-on/Reset sequence.	Disk Expansion System power off. Be sure unit is plugged in and power is on. Check all connections. Refer to Model II Operation Manual



Specifications

Power Requirements	105 - 130 VAC, 60 Hz 240 VAC, 50 Hz (Australian) 220 VAC, 50 Hz (European) Grounded Outlet
Typical Power Consumption	26-4160: 139 Watts 26-4161: 215 Watts 26-4162: 302 Watts
Total Storage Capacity (see TRSDOS Reference Manual for user storage capacity)	509,184 bytes per diskette†
Diskette Organization	
Tracks per diskette	77 (0-76)
Sectors per track†	26 (0-25)
Bytes per sector†	256 (except track 0 = 128)
Data Transfer Rate	500,000 bits per second (except track 0 = 250,000 bps)
Required Media	Radio Shack 8" Floppy Diskettes, Catalog Number 26-4905 (one diskette) Catalog Number 26-4906 (pkg of 10)
Preventive Maintenance Interval	8000 Power-On Hours (typical usage) 5000 Power-On Hours (heavy usage) (check with Radio Shack Service Center).
Diskette Life*	3.5 million passes per track

†These are determined by the operating system software. Refer to the **TRSDOS Reference Manual**, Technical Information section for details.

*In practice, diskette life is usually limited by improper handling. For maximum life follow handling recommendations in the **Model II Operation Manual**.

LIMITED WARRANTY

For a period of 90 days from the date of delivery, Radio Shack warrants to the original purchaser that the computer hardware described herein shall be free from defects in material and workmanship under normal use and service. This warranty is only applicable to purchases from Radio Shack company-owned retail outlets and through duly authorized franchisees and dealers. The warranty shall be void if this unit's case or cabinet is opened or if the unit is altered or modified. During this period, if a defect should occur, the product must be returned to a Radio Shack store or dealer for repair, and proof of purchase must be presented. Purchaser's sole and exclusive remedy in the event of defect is expressly limited to the correction of the defect by adjustment, repair or replacement at Radio Shack's election and sole expense, except there shall be no obligation to replace or repair items which by their nature are expendable. No representation or other affirmation of fact, including, but not limited to, statements regarding capacity, suitability for use, or performance of the equipment, shall be or be deemed to be a warranty or representation by Radio Shack, for any purpose, nor give rise to any liability or obligation of Radio Shack whatsoever.

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