UPGRADING TO TRSDOS 6.2.1 FLOPPY

Cat. No. 26-0316

Your Tandy® TRS-80® Model 4D currently uses Version 6.2.1 of the TRSDOS operating system. To take full advantage of the enhancements of Version 6.2.1, upgrade your diskettes by following the appropriate procedure below.

> **Note:** The procedures describe how to upgrade single-sided diskettes that use earlier versions of TRSDOS to single-sided diskettes that use TRSDOS 6.2.1. Once you perform the upgrade, you can gain storage space by following the instructions in the addendum *"Copying Data from Single- to Double-Sided Diskettes."*

You must have 2 disk drives to perform the upgrade. If you have a single-drive system, contact your Radio Shack® dealer.

Do **not** upgrade the following packages. They are backup-limited diskettes.

PFS Report	Cat. No. 26-1517
PFS File	Cat. No. 26-1518

Applications on System Diskettes

The following procedure is for application program diskettes that contain the operating system.

Before upgrading the diskettes, make backup copies of the TRSDOS Version 6.2.1 master diskette and your application diskettes. Store the masters in a safe place, and use the backups.

1. If the application package is on a version of TRSDOS that is earlier than 6.1.2, upgrade it to Version 6.1.2 before proceeding. If you no longer have the instructions for upgrading to 6.1.2, contact Radio Shack Customer Service.

2. Start your system with a Version 6.2.1 diskette in Drive 0.

   Note: If you are upgrading multiple diskettes, press RESET each time you start the upgrade procedure.

3. Insert a copy of your application diskette in Drive 1. First, be sure the diskette's write-protect notch is not covered.

4. At the TRSDOS Ready prompt, type:

   AUTO ?:1 (ENTER)

   If TRSDOS does **not** display an AUTO command line, go to Step 5 now. If it **does**, write the command down before proceeding.

5. Before you can copy the Version 6.2.1 files to your application program diskette, you must create enough space for the files. At TRSDOS Ready, remove the HERTZ/JCL file from the application diskette by typing:

   PURGE HERTZ/JCL:1 (Q=N) (ENTER)

   If TRSDOS does not display Purging HERTZ/JCL:1, reenter the command, being sure you type it correctly. If you enter the command correctly and the message still does not appear, the file has already been removed.

6. At TRSDOS Ready, remove the HERZ50/JCL file by typing:

   PURGE HERZ50/JCL:1 (Q=N) (ENTER)

   Again, reenter the command, if necessary.

7. If the application diskette you are upgrading is double-sided or has more than 9,000 (9K) bytes of space free, skip to Step 8. To display the amount of free space, type FREE :1 (ENTER).

   If the diskette is single-sided and has fewer than 9K bytes free, remove the SYS13/SYS file by typing:

   PURGE SYS13/SYS:1 (S,Q=N) (ENTER)

   Display the amount of free space again by typing:

   FREE :1 (ENTER)

If the diskette now has more than 7.5K bytes free, go to Step 8. If it still has fewer than 7.5K, remove the BACKUP/CMD file before proceeding. Type:

```
PURGE BACKUP/CMD:1 (I,Q=N) [ENTER]
```

8. At **TRSDOS Ready**, copy the Version 6.2.1 files to your application diskette by typing:

```
BACKUP :0 :1 (S,I,OLD) [ENTER]
```

9. If your screen did **not** display an AUTO command in Step 3, go to Step 10 now. If it did, type:

```
AUTO :1 command [ENTER]
```

inserting the AUTO command from Step 3 as indicated.

10. If your application program is listed below, it requires a CONFIG/SYS file. The existing CONFIG/SYS file was disabled by the BACKUP command in Step 8. Enter the appropriate commands below to create a new CONFIG/SYS.

W-2 Writer	Cat. No. 26-1539
General Ledger	Cat. No. 26-1540
Accounts Receivable	Cat. No. 26-1541
Accounts Payable	Cat. No. 26-1542
Payroll	Cat. No. 26-1543
Invoice Writer	Cat. No. 26-1544
Videotex Plus	Cat. No. 26-1598
XENIX™ Console Emulator	Cat. No. 26-1599

For Videotex Plus or the XENIX Console Emulator, type these commands at **TRSDOS Ready**:

```
SET *CL TO COM/DVR [ENTER]
SYSGEN (DRIVE=1) [ENTER]
```

For all other applications listed above, type:

```
SET *FF TO FORMS/FLT (ENTER)
FILTER *PR *FF (ENTER)
SYSGEN (DRIVE=1) (ENTER)
```

11. Although your application diskette now contains the new operating system, it is not formatted for use under the new system. You must now format a blank diskette and back up the application to it. Insert a blank diskette into Drive 1. First, be sure the diskette's write-protect notch is not covered. At `TRSDOS Ready`, format the diskette by typing:

    ```
    FORMAT :1 (Q=N) (ENTER)
    ```

12. Enter the command to back up your application to the newly formatted diskette. Type:

    ```
    BACKUP :Ø :1 (X) (ENTER)
    ```

    When TRSDOS asks for the source diskette, insert your upgraded application diskette in Drive Ø, and press (ENTER).

13. When the backup is complete, remove the diskette in Drive 1, and label it as your master diskette.

14. Because your Drive Ø diskette is now outdated, you can use it to make a backup of your upgraded master application diskette. To do so, move the Drive Ø diskette to Drive 1, and insert a system diskette that contains the BACKUP utility into Drive Ø. Then, repeat Steps 11 and 12 above.

15. After the backup, store your master application diskette in a safe place, and label the backup as your working diskette. Use the working diskette from now on.

Data Diskettes

The following procedure is for all diskettes that do not contain an operating system, regardless of whether they contain application programs or are strictly for data storage.

Before upgrading the diskettes, make backup copies of the TRSDOS Version 6.2.1 master diskette and your application diskettes. Store the masters in a safe place, and use the backups.

1. If the data diskette is formatted under a version of TRSDOS that is earlier than 6.1.2, upgrade it to Version 6.1.2 before proceeding. If you no longer have the instructions for upgrading to 6.1.2, contact Radio Shack Customer Service.

2. Start your system with a Version 6.2.1 diskette in Drive Ø.

   Note: If you are upgrading multiple diskettes, press RESET each time you start the upgrade procedure.

3. Insert a blank diskette into Drive 1. First, be sure the diskette's write-protect notch is not covered. At `TRSDOS Ready`, format the diskette for use with Version 6.2.1 by typing:

   ```
   FORMAT :1 (Q=N) (ENTER)
   ```

4. When the formatting is complete, enter the command to back up your application to the newly formatted diskette. Type:

   ```
   BACKUP :Ø :1 (X) (ENTER)
   ```

   When TRSDOS asks for the source diskette, insert your data diskette into Drive Ø, and press (ENTER).

5. When the backup is complete, remove the diskette in Drive 1, and label it as your master diskette.

6. Because your original data diskette (the Drive Ø diskette) is now outdated, you can use it to make a backup of your upgraded master diskette. To do so, repeat Steps 2 through 4, using your original data diskette instead of a blank diskette.

7. After the backup, store your master data diskette in a safe place, and label the backup as your working diskette. Use the working diskette from now on.

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COPYING DATA FROM SINGLE- TO DOUBLE-SIDED DISKETTES

Cat. No. 26-Ø316

Note: Upgrade all diskettes to TRSDOS Version 6.2.1 before following the procedure given here. (See the addendum "Upgrading to TRSDOS 6.2.1 Floppy.")

Your new Tandy® TRS-80® Model 4D has double-sided floppy disk drives, drives that can read from and write to double-sided floppy diskettes. Double-sided diskettes can store more than twice as much data as the single-sided diskettes used by earlier Model 4 computers.

If you are currently using single-sided diskettes, and you want to gain the extra storage space, follow the appropriate procedure below to copy the data to double-sided diskettes.

All procedures given copy all the files on the diskette. If you do not want to copy all files, alter the BACKUP command to suit your needs. Parameters that you can add include *partspec*, QUERY, DATE, and MOD. Parameters that you can omit include INV (I) and SYS (S). For more information on BACKUP's parameters, see the *Model 4D Disk System Owner's Manual.*

Two Floppy Drives

1. Start up your Model 4D with TRSDOS Version 6.2.1 (or later) in Drive Ø.

2. At `TRSDOS Ready`, insert a blank, double-sided diskette into Drive 1, and close the drive door. First, be sure the diskette's write-protect notch is not covered by a tab.

3. Format the Drive 1 diskette for data storage by typing:

```
FORMAT :1 (Q=N,SIDES=2) [ENTER]
```

If your diskette contains any flawed cylinders (indicated by asterisks on the screen), the diskette might be defective or your disk drive might be dirty. Repeat Steps 2 and 3 with another diskette until you get a good format. If necessary, clean the drive, using a Universal Disk Drive Head Cleaning Kit (Cat. No. 26-408); then, begin the procedure again.

4. When the formatting is complete, enter these commands:

```
SYSTEM (SYSRES=2) [ENTER]
SYSTEM (SYSRES=3) [ENTER]
SYSTEM (SYSRES=10) [ENTER]
SYSTEM (SYSRES=12) [ENTER]
```

5. Enter the BACKUP command as follows:

```
BACKUP :0 :1 (S,I,X) [ENTER]
```

Note: The X parameter causes BACKUP to ask you to swap diskettes. Even if you alter your BACKUP command, you must include X.

6. The screen displays:

```
Insert SOURCE disk <ENTER>
```

Replace the system diskette in Drive 0 with the single-sided diskette you want to copy. Then, close the drive door and press [ENTER].

7. When the backup is complete, the screen displays:

```
Insert SYSTEM disk <ENTER>
```

Reinsert the system diskette in Drive 0, close the door, and press [ENTER]. TRSDOS informs you if the backup is successful. If any error occurred, refer to Appendix D of the *Model 4D Disk System Owner's Manual.*

If you want to back up several diskettes, omit Step 4 for subsequent copies. If you reset the system, include Step 4 the first time you use the procedure again.

Three or More Floppy Drives

1. Start up your Model 4D with TRSDOS Version 6.2.1 (or later) in Drive Ø.

2. At `TRSDOS Ready`, insert a blank, double-sided diskette into Drive 1 and close the drive door. First, be sure the diskette's write-protect notch is not covered by a tab.

3. Format the Drive 1 diskette for data storage by typing:

   ```
   FORMAT :1 (Q=N,SIDES=2) (ENTER)
   ```

   If your diskette contains any flawed cylinders (indicated by asterisks on the screen), the diskette might be defective or your disk drive might be dirty. Repeat Steps 2 and 3 with another diskette until you get a good format. If necessary, clean the drive, using a Universal Disk Drive Head Cleaning Kit (Cat. No. 26-4Ø8); then, begin the procedure again.

4. After the format is complete, insert the diskette you want to copy in Drive 2, and close the drive door.

5. Copy all files from Drive 2 to Drive 1 by typing:

   ```
   BACKUP :2 :1 (S,I) (ENTER)
   ```

After the backup is complete, remove the diskettes from Drives 1 and 2. TRSDOS informs you if the backup is successful. If any error occurred, refer to Appendix D of the *Model 4D Disk System Owner's Manual.*

Two Floppy Drives and a Hard Disk

If the hard disk is your system drive (Logical Drive Ø), you can follow these steps to copy files from a single-sided diskette to a double-sided diskette:

1. Start up your system under hard disk control.

2. At `TRSDOS Ready`, insert a blank, double-sided diskette into Physical Drive 1 and close the drive door. First, be sure the diskette's write-protect notch is not covered by a tab.

3. To continue with the procedure, you must know the **logical** drive numbers for Physical Drives Ø and 1. If you do not know them, display them by typing:

   `DEVICE` (ENTER)

   DEVICE displays the drive information in this format:

   ```
   :Ø WP [TRSDOS62] 5" Rigid #Ø, Cyls=3Ø6,
      Fixed
   :1 WP [DATAFILE] 5" Rigid #2, Cyls=3Ø6,
      Fixed
   :4 WP [No Disk] 5" Floppy #1, Cyls= 4Ø,
      Dden, Sides=1, Step=6ms, Dly=.5s
   :5 WP [No Disk] 5" Floppy #2, Cyls= 4Ø,
      Dden, Sides=1, Step=6ms, Dly=.5s
   ```

   Physical Drive Ø, which is to be your *source* drive, is listed as Floppy #1. Physical Drive 1, your *destination*, is listed as Floppy #2. The logical drive numbers are listed in the far left column. In this example, the *source* is Logical Drive 4 and the *destination* is Logical Drive 5.

4. Format the Drive 1 diskette for data storage by typing:

   `FORMAT :`*destination* `(Q=N,SIDES=2)` (ENTER)

   where *destination* is the logical drive number of Physical Drive 1.

If your diskette contains any flawed cylinders (indicated by asterisks on the screen), the diskette might be defective or your disk drive might be dirty. Re-enter the FORMAT command with another write-enabled, double-sided diskette until you get a good format. If necessary, clean the drive, using a Universal Disk Drive Head Cleaning Kit (Cat. No 26-4Ø8); then, begin the procedure again.

5. After the format is complete, insert the diskette you want to copy in Physical Drive Ø, and close the drive door.

6. Copy all files from Physical Drive Ø to Physical Drive 1 by typing:

   BACKUP :*source* :*destination* (S,I) [ENTER]

   where *source* is the logical drive number for Physical Drive Ø and *destination* is the logical drive number for Physical Drive 1.

After the backup is complete, remove the diskettes from Physical Drives Ø and 1. TRSDOS informs you if the backup is successful. If any error occurred, refer to Appendix D of the *Model 4D Disk System Owner's Manual.*

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