

DISK CONTROLLER TEST

The following menu will be displayed for the DISK CONTROLLER TEST:

DISK CONTROLLER

1. SINGLE SIDED SINGLE DENSITY
2. DOUBLE SIDED SINGLE DENSITY
3. SINGLE SIDED DOUBLE DENSITY
4. DOUBLE SIDED DOUBLE DENSITY
5. SELECT DRIVE TO TEST
6. DISPLAY HEAD STEP TIMES
7. DISPLAY DRIVE MOTOR SPEED

1 - 4 DISK READ/WRITE TESTS

The first four items format the selected diskette in the indicated configuration and provide a completely initialized diskette when complete. The name TESTER is placed on the diskette. The test is destructive and therefore ANY INFORMATION ON THE DISKETTE WILL BE DESTROYED. When using a TI card, only selections 1 and 2 are usable. The test is set to format a total of 40 tracks and during the disk format the following message will be displayed:

TESTING DISK CONTROLLER/DRIVE

Once the format is complete a total of 32 randomly located sectors are written to. The values 0 through 255 are then written to the 256 byte locations in each sector. At this point the display will show the following:

WRITING SECTOR -> _____

The sector number being tested will also be shown. Once all the sectors are written the following message will be shown:

READING SECTOR -> _____

If there are no problems found then the following message will be shown:

DISK TEST COMPLETE
PRESS ENTER TO CONTINUE

If there is a problem found during this test an error message will be displayed. If you were to catalog the initialized disk it should indicate the following depending on the configuration:

Single Sided Single Density	FREE 358	USED 002
Double Sided Single Density	FREE 718	USED 002
Single Sided Double Density	FREE 718	USED 002
Double Sided Double Density	FREE 1438	USED 002

IF PROBLEMS ARE FOUND

The DISK CONTROLLER test will test your disk system as a whole. If there is a problem in either the disk controller card or the disk drive you may get the same errors. So it is advised if you do have an error, replace the disk drive under test, with another disk drive, and try the test again to help isolate the problem. Shown below are the error messages and some of the potential causes of the problem.

NO DISK CONTROLLER PRESENT

- Defective Disk Controller
- Power not applied to card
- Defective Interface cable

NO DISKETTE OR NO DRIVE

- Drive selected not present
- Drive door open
- Diskette not inserted
- Drive not configured correctly
- Defective Cable

DISKETTE IS WRITE PROTECTED

- Write protect tab left on diskette

SECTOR NOT FOUND OR SEEK ERROR

- Defective diskette
- Defective Disk Drive
- Defective Disk Controller

DATA LOST ON READ OR WRITE

- Defective Diskette
- Defective Disk Drive
- Drive Motor Speed not correct
- Defective Disk Controller

CIRCULAR REDUNDANCY CODE ERROR

- Defective Diskette
- Defective Drive
- Defective Disk Controller

TESTING DISK CONTROLLER/DRIVE - Defective Disk Controller
MESSAGE REMAINS AND DISK -
DRIVE LIGHT GOES OUT