How to use the test program "8296d diagnostic"

The program "8296d diagnostic" has been designed for checking the
device by the user or technician and for diagnostic purpose by the
technician, respectively. After loading and running the program,
several steps are to be choosen by a menu. For checking the drives
two new diskettes must be applicated to the drives (close the
drives carefully !). Whereas any faults of the CPU-board are dis-
played on the screen, all read errors on the drives will be
written to the diskette on which they appeared and you can read
them back after reseting the floppy board (either by software or
the red reset button and the IFC-terminal of the IEEE-connector,
respectively).

Displaying the menu the program allows the following commands:

B   CPU-board   check
D   speed check of the drives
0 and 1   reading   the test results of drive 0 and
                       drive 1, respectively
C   changing the device address of the device
                       under test
M   submenu for special drive tests
RETURN   CPU-check and 500 pass drive test (approx. 12
                       hours). At the end of drive test the drive
                       LEDs will blink constantly.

After typing "D" a "0" or "1" has to be pressed in order to
check the speed of drive 0 or drive 1. Maximum deviation is
+/- lms. Press SPACE to go back to the menu.

If the test had been started by pressing RETURN, push the red
buttom to reset the 8296d when the test is finished, load the
test program again and press "0" or "1" to read the test
results. The following message must be displayed:

                    ✍**** DRIVE 0 PASSES *****

If one drive failes, the diskette is bad or bad centered or there
is a problem in the drive or the drive controll. If the same error
accurs with different diskettes, a technician should find out the
reason for it.

Change in the E-ROM

Using a new video board in the 8296d the screen controller needs a
new timing. Therefore the tables in the E-ROM are different to the
tables of the former versions (8296, 8032, etc.) (partnumber of
the ROM changed from 901474-04 to 324243-02):

e72a:31->32   e72c:29->28   e72d:0f->08   e72e:27->26
e72f:00->02   e73c:31->32   e73e: 29->28   e73f:0f->08
e740:31->30