The EEF (Electrically Erasable Programmable Read Only Memory Failure) failure is an indication that the memory area that holds the drive parameters is faulty in some manner. This fault could be caused by a corruption of the stored data or it could be a genuine device failure. The integrity of this data is checked at each power-up or cold boot (hard reset). If the drive microcomputer detects a discrepancy it indicates EEF and trips the drive since it could produce unreliable drive operation.

If the information contained in the EEPROM is simply corrupt rather than being a hard EEPROM failure, you could attempt to reset the drive parameters back to their default settings and have the customer reload his particular application settings. (Don't forget the final store however.)

This may correct the EEF problem and save the undue effort and time associated with shipping and installing a replacement drive. If this does not correct the problem, the MDA1 CPU Board could be replaced to fix the problem instead of an entire drive.
Procedure

1) Record all parameters that are different from the defaults listed in the manual. Only the parameters marked R/W (read/write) need be recorded not the ones marked R/O (read only). To obtain more information on backing up your parameter set to a file on a PC go to google and type in **CTAN193** or click the link below:

   **CTAN193**

2) Flush EEPROM with factory defaults. At parameter location #00.00 enter:

   - 255 if the Drive is a Non-Regen Model (ie. Mentor II M25..... or Quantum III 9500-830X )
   - 233 if the Drive is a Regen Model (ie. Mentor II M25R... or Quantum III 9500-860X )

   then depress the **RESET** key. This will set the drive back to original factory settings.

3) Store these settings by setting #00.00=1 and depress **RESET**.

4) Set #00.00=200 This will unlock security. If a Quantum III, go to next page then back to step 5. For more information on security code access click the link **CTAN110**

   or go to Google.com and key in **CTAN110**

5) Enter in particular application specific parameters that were recorded as different from the default.

6) When done, store by setting #00.00 = 1 and depress **RESET**

7) If the drive is a Quantum III keep in mind that there are 31 parameters that are always entered in after the default procedure listed in step 4 above (See next page).

If this doesn’t not rectify the **EEF** problem, we would recommend replacement of the MDA1 CPU card. Contact our Parts Department at 716-774-0093 to order P/N 9200-0784 for MDA1 CPU card.

For replacement instructions click link below:

   **CTRI206**

   or go to Google.com and key in **CTRI206**
After factory defaults are reset, the following must be changed to enable the drive to function as a Quantum III.

**Model/HP specific Quantum III Drives defaults** can be automatically setup more accurately using MentorSoft by referring to the application note:

Click [CTAN157](#) or type CTAN157 into Google

For questions call Control Techniques Technical Support-USA at 716-774-1193
Grand Island, NY 14072