

4054 DISPLAY CONTROLLER MODIFICATION #39763 CORRECTION

Please refer to March 21, 1980 Issue 10-6 page 22 Wizards Workshop. In the article, "4054 DISPLAY CONTROLLER MODIFICATION #39763", it states that the Display Controller part number will go from a 670-5672-00 to 670-5672-01. This statement is incorrect, the board level should change from a 670-5672-01 to a 670-5672-02 level after MOD #39763 is implemented.

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4054 OPT. 30 VECTOR GENERATOR & DISPLAY CONTROLLER INTERACTING PROBLEM

There have been two cases of 4054's (with Option 30 installed) demonstrating an undesirable problem when operating in a refresh mode. The symptom of this problem occurs as follows. The 4054 may draw some unwanted vectors and hang busy. In addition, when the machine hangs busy, the Z axis may remain on, causing the CRT to be damaged. This problem is caused by interaction between the Vector Generator (670-5666-01) and Display Controller, (670-5672-02), and is only apparent with Option 30 installed. To date there is no defined solution, other than changing either one or both of the boards.

The source of the problem has been identified and as soon as a modification is completed it will be documented in the Wizards Workshop.

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4631/32/33A/34: CLUTCH AND CONTROL BOARD MODIFICATIONS #37349, 40065 AND 40750

4633A

To use the available 105-0519-00 drive roller clutches in the 4633A Continuous Recorder, the clutches were screened for a low pull-in voltage. Those meeting the requirements were part numbered 105-0519-01 and used in the 4633A. The continuous duty cycle, however, raised the possibility of the clutch coil overheating.

To correct this, MOD 37349 has been implemented. The internal resistance of the coils in both the 105-0519-00 and 105-0520-00 has been increased from near 90 ohms to about 145 ohms. The new part numbers are 105-0519-02 for the drive roller clutch (L1020) and 105-0520-01 for the cutter clutch (L1022).

In addition, R1 on the 4633A control board had been changed from 47 Ω to 27 Ω . This increased the voltage applied across the drive roller solenoid, L1020. It also rolled the control board part number from 670-4599-06 to 670-4599-07. It was found that low-line conditions could still cause the drive roller clutch flapper to fail to pull in.