

4006-1, 4051/52/52A DISPLAY BOARD MOD (CONT.)

R64 changes from 68K 2W resistor, P/N 305-0683-00, to a 30K 8W resistor, P/N 308-0105-00. The Display board for the 4006-1 changes from a 672-0537-11 to a 672-0537-12 and the Display board for the 4051/52/52A changes from a 672-0546-11 to a 672-0546-12.

W2 Issue 14-17

4016/GMA125(A)/616 MAKING POOR HARD COPIES

Ref: GMA125 Instruction Manual,
070-2618-00
GMA125A Instruction Manual,
070-4895-00
4016 Service Manual,
070-2661-00
616 Instruction Manual,
061-2875-00

Many deflection amplifier boards in GMA125(A), 616, and 4016 products have been found with the wrong values for resistors R416 and R418. Rather than the 1.00K ohms specified in the schematic and parts list, the value of 287 ohms has been prevalent. Some boards have also had the same problem with R401 and R404. This may explain a number of problems encountered with hard copy units, as these resistors are in the ramp input circuits.

When investigating ramp-related hard copy problems and one of the products connected is a 25-inch display, check the values of R401, R404, R416 and R418 on the display's deflection board.

W2 Issue 14-17

4041 FIRMWARE CHANGES

There is now a new firmware version for the 4041. The new version 2.1 improves compatability with the 41XX graphics terminals, as well as improving internal memory management. Since these changes do not benefit all users, we have decided to continue availability of the version 2.0 firmware.

To provide the support for two versions more easily, the ROMs have been removed from the circuit boards. In addition, several new kits have been set up to provide V2.0 FOXX options, as well as firmware upgrade kits. Each ROM will also be individually orderable. Due to the quantity of firmware on the CPU board, two 672 numbers have been set up for board exchange that already have the ROMs installed. The other boards will be supplied from board exchange without any firmware.

Please note that the 672 number is for board exchange use only, new CPU boards should be ordered using the 670 number.

The following list shows the part numbers available for the various kits and boards for both firmware versions.

(ARTICLE CONTINUED ON THE NEXT PAGE)

4041 FIRMWARE CHANGES (CONT.)

CPU board w/o firmware	670-7048-05	
I/O opt. board w/o firmware	670-7047-04	
	V. 2.0	V. 2.1
CPU with firmware (board exchange)	672-1174-00	672-1175-00
4041F01 (opt 1)	020-1324-00 plus 040-1131-00	4041 F01
4041F030 (opt 30)	020-1322-00 plus 040-1133-00	4041 F30
4041R01 (graphics) with F/W	020-1323-00	020-1323-10
Sys Ver Tape	062-5828-01	062-5828-03
CPU F/W Update Kit	040-1130-00	040-1130-10
Opt 1 F/W Update Kit	040-1131-00	040-1131-10
Opt 30 F/W Update Kit	040-1133-00	040-1133-10

W2 Issue 14-17

4109 HORIZONTAL DRIFT

REF: 4109 Computer Display Service
Manual, P/N 070-4890-00

19-Inch Color Monitor for GMA301
and 4109 Service Manual,
P/N 070-4899-00

Corporate Mod #55235

Malfunction:

Horizontal hold position drifts after a warm-up of 15 to 20 minutes. This drift can be tweaked out but may reappear at the next power up.

Solution:

A solution has been found to the horizontal drift problem as described

above. Corporate modification #55235 corrects the horizontal drift by changing the temperature coefficient of a capacitor in the phase lock loop circuitry of the horizontal processor circuit. The capacitor is C642. It changes from a 285-0627-00 to a 283-0655-00. The deflection amp board changes from a 670-7686-02 to a 670-7686-03. When available the serial number break for this change will be published in the mod summary section of the 4109 microfiche.

W2 Issue 14-17