

4016/4116A/GMA 125/618DM CRT MODULE THREADS OBSTRUCTED

A number of calls have been received expressing a difficulty in installing replacement CRT modules in the 4016, GMA125 and 618DM products. The 1/4" X 20 thread holes in the module's frame were the source of complaints. Reports of wrong thread, incomplete tapping and obstructions in thread holes were made.

Manufacturing has investigated and found paint runs obstructing the threaded holes in the CRT frame. A Q.A. procedure has been implemented to prevent future problems with the mounting holes.

A locally purchased 1/4" X 20 tap is recommended to clean out any mounting holes that are found to have the above symptoms.

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4052/4052A/4054/4054A AND 4050E01 RESTART CIRCUIT MOD

REF: 070-2829-01 4052 and 4052A Graphic Computing System, Parts and Schematics Service Manual.

070-2839-03 4054 and 4054A Graphic Computing System, Parts and Schematics Service Manual.

070-3833-00 4050E01 ROM Expander Instruction Manual.

Corporate Mod #M48904.

Identical power up restart circuits on the 4052/4052A power supply, 4054/4054A I/O boards and the 4050E01 power supply have a design defect which can cause the restart signal to pulse several

times. This can cause the system to hang or for the 4050E01 to power up in the opposite mode than the product to which it is connected. The malfunction can also show up on the 4050E01 as intermittently changing modes.

Corporate Mod #M48904 fixes this restart malfunction with a design change. The change is as follows:

Note: In the following paragraph, the circuit numbers are applicable to the schematic in this article only. Actual circuit numbers are listed by product following the schematic diagram.

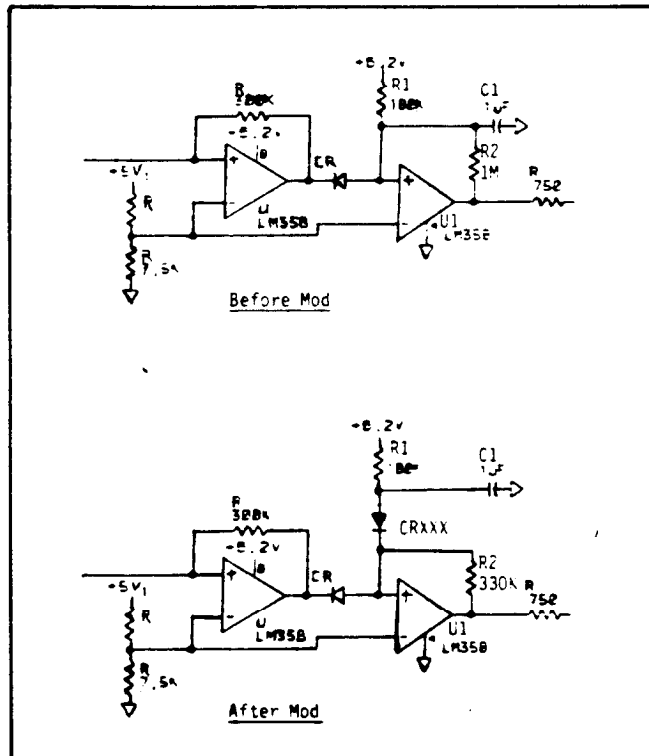
One end of both a 1 uf cap (C1) and a 180K Ω resistor (R1) are connected to the plus input of the OP AMP (U1) in the circuit involved. Lift this end of both components and "teepee" together. Insert and solder in the cathode end of a 1N4152 diode (CRXXX) into the hole from which the end of the "teepeed" resistor (R1) was removed. Connect the other end of the diode to the "teepeed" resistor and capacitor (R1, C1) and solder together. Last, replace the 1M Ω resistor (R2) with a 330K Ω resistor. Below are part numbers for CRXXX and R2.

Diode CRXXX	152-0141-02	1N4152
Resistor R2	315-0334-00	330K

(ARTICLE CONTINUED ON THE NEXT PAGE)

4052/4052A/4054/4054A AND 4050E01 RESTART CIRCUIT MOD (CONT.)

Schematic Changes



4054A

Board Name - Input/Output Board
Board P.N. - 670-7630-01 rolls to -02
Ckt. Involved - U265B (+ input = pin 5)
Lift - R265 and C267
Add - CR265
Change - R266

4050E01

Board Name - Power Supply Ckt. Bd.
Board P.N. - 670-7210-01 rolls to -02
Ckt. Involved - U205A (+ input = pin 3)
Lift - R202 and C202
Add - CR203
Change - R201

Serial Number Breaks

Products started shipping with this modification installed at the following serial numbers:

4052A	B044963
4052F39	B010368
4054A	B033024
4054F39	B010290
4050E01	B010398

There will not be an 040 or 050 kit set up for this modification. The mod should be installed on an as needed basis only.

By Product Circuit Number and Other Information:

4052/4052A

Board Name - Regulator Circuit Board
Assy. P.N. - 620-0278-00 rolls to -02
Bd Assy P.N. - 672-0833-01 rolls to -03
Ckt. Involved - U271A (+ input = pin 3)
Lift - R272 and C271
Add - CR272
Change - R263

4054

Board Name - Input/Output Board
Board P.N. - 670-5666-02 rolls to -03
Ckt. Involved - U270B (+ input = pin 5)
Lift - R260 and C262
Add - CR261
Change - R261

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