

70001A-20-S

S E R V I C E N O T E

SUPERSEDES: None

**HP 70001A MMS Mainframe**

Serial Numbers: see attached table

**WARNING**

**Possible Fire Hazard**

A faulty lot of electrolytic capacitors on the power supply board may leak electrolyte across high voltage traces leading to a potential fire hazard. The faulty capacitors are marked with date code 47Y0L633

*Continued*

DATE: October 1995

**ADMINISTRATIVE INFORMATION**

SERVICE NOTE CLASSIFICATION:			
<b>SAFETY</b>			
ACTION CATEGORY:	<input type="checkbox"/> ON SPECIFIED FAILURE <input checked="" type="checkbox"/> AGREEABLE TIME	STANDARDS:	LABOR
LOCATION CATEGORY:	<input type="checkbox"/> CUSTOMER INSTALLABLE <input type="checkbox"/> ON-SITE <input checked="" type="checkbox"/> HP LOCATION	SERVICE INVENTORY:	<input type="checkbox"/> RETURN <input checked="" type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
		USED PARTS:	<input type="checkbox"/> RETURN <input checked="" type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AVAILABILITY:	ALWAYS	HP RESPONSIBLE UNTIL: ALWAYS	
AUTHOR: CV	ENTITY: 5340	ADDITIONAL INFORMATION:	

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**To Be Performed By:** HP-qualified personnel

**Parts Required:**

HP P/N	Date Code	Description
0180-4595	any date code	Capacitors
0470-0450	except 47Y01L33	RTV Silicone

**Situation:**

A unique datecode of capacitors has shown indications of leaking a portion of their contained electrolyte onto high voltage lines in the power supply board (part # 70001-60098 normal production, 70001-60103 for I110). The first indication of this may be a blown main fuse. To date, 2 out of 401 instruments containing the unique datecode capacitors have exhibited failures. These failures occurred during production heat cycling. Both failures resulted in a blown main fuse, were self extinguishing and were completely contained within the instrument housing.

**Solution/Action:**

Replace the 4 power supply capacitors C209, C210, C229, and C230, part number 0180-4595, datecode 47Y01L33, with same part number, *any other datecode*. Use high power soldering iron ( $\geq 40W$ ) with tip temperature at 800 deg F. After removing capacitors clean board with water-based cleaning solution. After new capacitors have been installed, apply RTV between them for mechanical stabilization. (See attached diagram for RTV application process.)

The following notes give capacitor installation instructions and tests that **MUST** be performed following capacitor replacement.

1. Make sure that the caps are not installed backwards!! The stripe on the wrapper identifies the negative lead. All the caps should have their stripes facing the same way when properly installed.
2. The capacitor leads must be clipped after replacement to prevent them from working through the insulation and shorting to the housing. The clipped leads should protrude no more than 3/16 (0.180) inches in length.
  - 2a. Inspect to ensure that the red and black wires on T11 don't protrude beyond the edge of the board. They could get pinched during assembly.
  - 2b. Inspect to ensure that the spiral gasket on the rear housing cover (beneath the input RFI circuitry) is contained within its groove.
3. After the unit has been re-assembled, the following tests must be run as a health check:
  - A. Turn on the unit and verify that it powers up normally.
  - B. Verify fan operation by feeling for air flow. (Verify that both fans are operating).
  - C. Plug in a module in an arbitrary slot to verify that power is present at the MSIB connectors.
  - D. Let the unit sit powered for at least 30 minutes to verify modification integrity.

**Serial number range of units to be reworked (exceptions are also shown below).**

**70001A**

3403A06639,6655,6663,6672,  
6692 --> 3518A07126  
Shipments starting 1/6/95

**70001A III10**

3403A06686 --> 3518A07127  
Shipments starting 12/6/94

**\*\*\*\*\* REWORKED UNITS \*\*\*\*\***

The units listed below are exceptions to the ranges listed above - they have already been reworked

3403A06741	3403A06854
3403A06876	3403A06865
3403A06888	3403A06902
3403A06894	3403A06909
3403A06895	3518A07001
	3518A07009
3403A06912	3518A07010
	3518A07042
3518A06993	3518A07045
3518A07008	
	3518A07053
3518A07011	3518A07062
	3518A07070
	3518A07074
	3518A07078
	3518A07081
3518A07031	3518A07095
3518A07033	3518A07097
3518A07055	3518A07103
3518A07079	3518A07104
3518A07093	3518A07106
3518A07099	3518A07110
3518A07107	3518A07113
3518A07108	3518A07115
3518A07120	3518A07117
3518A07125	3518A07119
	3518A07123
	3518A07124

