

70004A-15-S

S E R V I C E N O T E

SUPERSEDES: None

**HP 70004A MMS Display**

Serial Numbers: see attached table



**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 # 70004-60040). The first indication of this may be a blown main fuse. To date, 2 out of 394 instruments containing the unique datecode capacitors have exhibited failures. These failures occurred during production heat cycling. Both failures resulted in a blown main fuse.

**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 (HP P/N 0470-0450) 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.
  - 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).**

**70004A**

3342A03132, 3135 ,3137, 3168 --> 3518A03573, 78, 91, 97, 3608

Shipments starting 11/10/94

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

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

**70004A**

3342A03314

3342A03409

3518A03436

3518A03465

3518A03478

3518A03480

3518A03483

3518A03485

3518A03513

3518A03515

3518A03517

3518A03522

3518A03528

3518A03546

3518A03551

3518A03553

3518A03555

3518A03557

3518A03568

3518A03570

