

6671A-10

**S E R V I C E N O T E**

Supersedes  
None

**6671A - DC POWER SUPPLY, 0-8 V, 0-220 A, 1760 W.  
GPIB CONTROLLED**

**Serial Numbers: MY41000101/ MY41001550 SG41000101/ SG41000320**

**The four filter capacitors circuit reference (C416-C419) on the A4 AC input board starts leaking electrolyte**

**Parts Required:**

<b>P/N</b>	<b>Description</b>	<b>Qty.</b>
<a href="#">2680-0129</a>	SCREW-MACH 10-32 .312-IN-LG PAN-HD-POZI 10-32 UNF-2A; 0.312 IN LONG; STAINLESS STEEL-300 SERIES, PASSIVATED FINISH	8
<a href="#">2190-0034</a>	WASHER-LK HLCL NO. 10 .194-IN-ID; 337 IN MAX; OD; 0.047 IN THICK; STAINLESS STEEL-300; SERIES	8
<a href="#">3050-0002</a>	WASHER-FL MTLC NO. 10 .203-IN-ID; 0.203 +0.008 -0.005 IN ID;0.438; +0.015 -0.005 IN OD;0.031 ; +-0.002 IN THICK; STEEL, ZINC; PLATED, CLEAR CHROMATE; CONVERSION	8
<a href="#">0180-4369</a>	CAP-FXD 1500UF +50-10PCT 400V AL-ELCTLT	4
<a href="#">5060-3341</a>	PCA-TSTD,BIAS/AC	(See Note)

**Note:** Replacement of the Tested Assembly P/N 5060-3341 is ONLY required if the assembly can't be cleaned Or the printed board can't be repaired due to damaged traces.

**ADMINISTRATIVE INFORMATION**

SERVICE NOTE CLASSIFICATION:			
<b>MODIFICATION RECOMMENDED</b>			
ACTION CATEGORY:	X ON SPECIFIED FAILURE <input type="checkbox"/> AGREEABLE TIME	STANDARDS	LABOR: 1.5 Hours
LOCATION CATEGORY:	X CUSTOMER INSTALLABLE X ON-SITE X SERVICE CENTER <input type="checkbox"/> CHANNEL PARTNER	SERVICE INVENTORY: <input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP X SEE TEXT	USED PARTS: X RETURN <input type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	NO CHARGE AVAILABLE UNTIL: (09/18/2015)	
AUTHOR:	CP	PRODUCT LINE: SP	
ADDITIONAL INFORMATION: At the end of the No Charge Date shown above if an instrument comes in with the specified failure it is recommended that the instrument be repaired at NO CHARGE.			

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**Situation:**

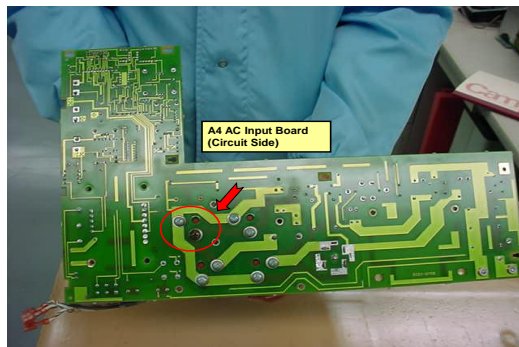
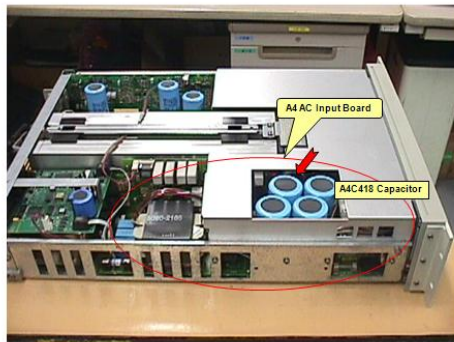
The four filter capacitors circuit reference (C416-C419) on the A4 AC input board starts leaking electrolyte - not through the pressure valve in the bottom as one would expect but through one of the terminal screw bushings.”

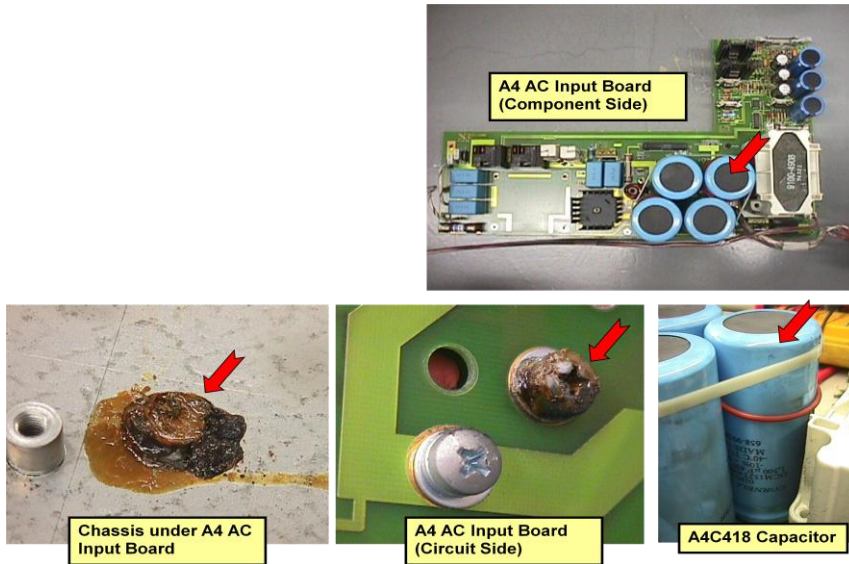
The screw P/N 2680-0217 length currently being used was not considered and the length was overlooked. The screw length is 0.375 inches long. We have found that the screw can be 0.055 inches too long and may bottom out causing the tapped hole in the header of the capacitor to become cracked or become broken.

When this happens the electrolyte will slowly leak out over time, and cause the defect described. This situation is even worse due to the capacitor is mounted with the header face down. If the capacitor was mounted header face up a cracked or broken header would not have caused this problem, the electrolyte could not leak out.

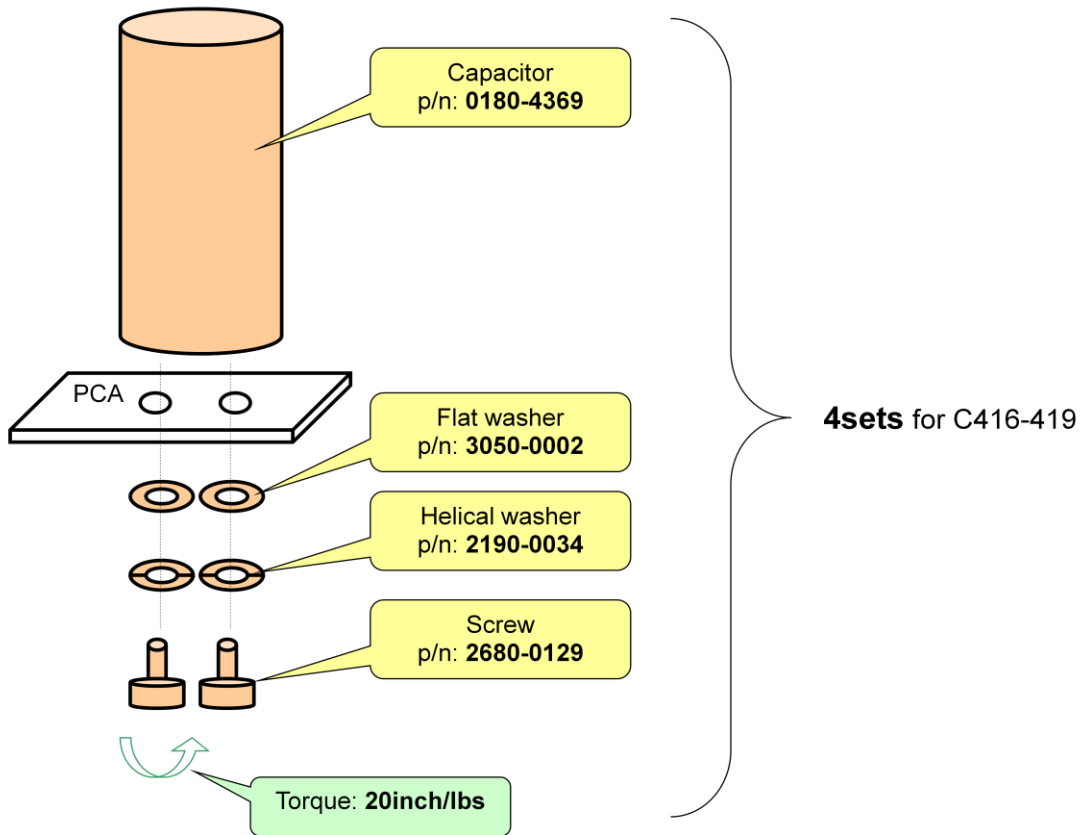
**Solution/Action:**

1. All affected models and tested assemblies WIP (Work In Process), FGI (Finished Goods Inventory) at SPO (Support Parts Organization) & AMC (Asian Manufacturing Center) has been inspected for capacitors with damaged headers due to the incorrect screw
2. When this repair is being done all of the hardware described above should be replaced (It is NOT recommended that any of the hardware be reused)
3. The following figures can be used when doing the repair.
4. Inspect the assembly as described below.
5. The last figure will aid in the reassembly of the hardware and the capacitors.





Replacement instruction for C416-419



**Note**

The following is a list of other affected Service notes:  
6571A-08 6572A-08 6573A-07 6574A-09 6575A-09  
6671A-10 6672A-10 6673A-09 6674A-11 6675A-11  
E4356A-04