					I	E310	1K-1	0A
S E	R V	I	С	Е	Ν	0	Т	Е
					UPERSEDE	S: E3101	A-10	
E3101K, 4	071A Semicon	ducto	or Pai	rametric	Tester			
Serial Numb	ers: See below							
All the SM	Us show "anoth	er SN	MU ha	s reached	l complian	ce".		
Duplicate Ser	rvice Notes:							
E3101A	Serial Numbers:	JP2	JP10D00101 / JP10D00300,JP10D00303, JP10D00304 JP20D00301, JP20D00305 / JP20D00312, JP20D00315, JP20D00316, JP20D00318					
E3101K	Serial Numbers:	JP1	JP10E00101 / JP10E90103					
To Be Perfor	med By: Agilent-Qu	ualifie	d Perso	nnel				
Parts Requir	ed:							
P/N	Description		(	Quantity				
E3120-66533 GNDU BOARD 1								
Situation:								
measurement	er uses the 4071A te results shows "anoth IU results in the sam	ner SM	1U has r	reached con			g the	
							Continue	d
				D	ATE: May 1	1999		

## ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION: MODIFICATION RECOMMENDED							
ACTION CATEGORY:	<ul> <li>IMMEDIATELY</li> <li>ON SPECIFIED FAILURE</li> <li>AGREEABLE TIME</li> </ul>	STANDARDS: LABOR 1.0 Hours					
LOCATION CATEGORY:	<ul> <li>☐ CUSTOMER INSTALLABLE</li> <li>■ ON-SITE</li> <li>☐ SERVICE CENTER</li> </ul>	SERVICE     RETURN     USED     RETURN       INVENTORY:     SCRAP     SCRAP     SCRAP       SEE TEXT     SEE TEXT     SEE TEXT					
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	AGILENT RESPONSIBLE UNTIL: May 2002					
AUTHOR: ET	ENTITY: 3300	ADDITIONAL INFORMATION:					

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When the diagnostic (diag4070) is executed, the following message is displayed in the result window during the SMU V/I test:

ERROR 2-23021 Status error occurred in SMU. port: x, status: 1

Our further investigation for this failure found a circuit design bug. Idle current of comparator IC, which has the function to detect the over current, is too large, and its temperature is over 100 degree Celsius. Then the long term heat stress may result in the malfunction of the over current detector.

## **Solution / Action:**

When the symptom above is observed, the E3120-66503 GNDU BOARD must be replaced with the new part E3120-66533. Then the problem will be fixed.