								E22	25A-	-04
S	Е	R	V	I	С	Е	Ν	0	Т	Е
							SUPERSEDE	S: NON	E	
					v	m Modu 2U Moo				
Seria	al Numb		E384001 xceptions			55 and DE384	400252			
PIS	A12U F	ails at	low ten	nperat	tures.					
To B	Be Perfor	rmed By	: Agilent-	-Qualifi	ied Persc	onnel only.				
Situ	ation:									
centi							res, usually belo haracterized by			
1. Th	e PISA1	2U beeps	3.							
2. Th	e shutdo	wn cycle	is started	l, and th	ie shutdo	wn time is	s counted down	on the disj	play.	
3. Af	ter elaps	e of the s	hutdown	time, th	ne PISA1	2U shuts o	down completel	у.		
4. WI	hen the u	ınit warm	s up agai	n, it sta	rts back	up. Some	units were comp	letely dea	d.	
									Continue	ed
							DATE: March	า 1999		

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLA	SSIFICATION: MODIFICATION	RECOMMENDED
ACTION CATEGORY:	 IMMEDIATELY ON SPECIFIED FAILURE AGREEABLE TIME 	STANDARDS: LABOR 1.0 Hours
LOCATION CATEGORY:	 CUSTOMER INSTALLABLE ON-SITE SERVICE CENTER 	SERVICE RETURN USED RETURN INVENTORY: SCRAP SCRAP SCRAP SEE TEXT SEE TEXT SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	AGILENT RESPONSIBLE UNTIL: September 2002
AUTHOR: PH	ENTITY: 4222	ADDITIONAL INFORMATION:

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Solution / Action:

The failure is caused by a zener diode of the wrong type. The error is limited to the lot that had the wrong component inserted. Figure 1 shows the offending diodes. Replacing the diodes is not recommended. To solve the problem, the unit must be exchanged.

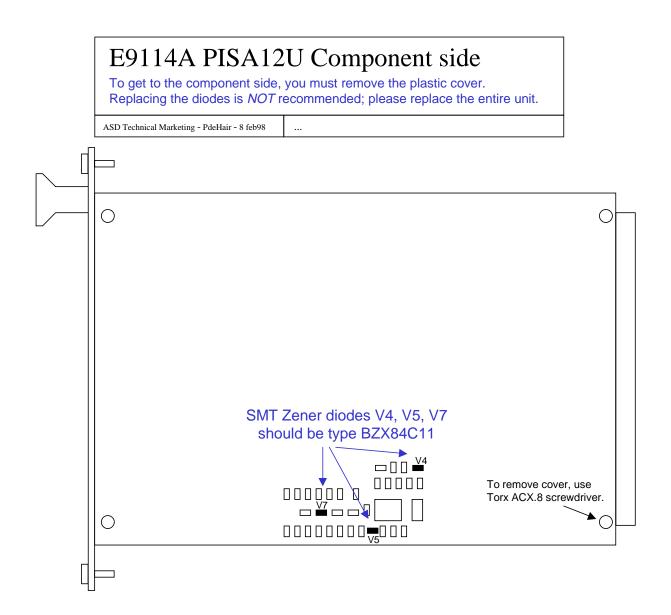


Figure 1. PISA12U Zener diodes responsible for failure.

Units are replaced on proven failure only. To test whether a unit is eligible for replacement, please perform the following test. To do the test, you will need to have a bottle of cold spray. Cold spray is available as an aerosol from most electronics shops. (It is also permissible to cool down the entire module if you have access to a climatic chamber.)

- 1. Remove the PISA12U from the MODAC, and put it on a bench. Please observe proper ESD precautions.
- 2. Apply the external 12V power source to the PISA12U.
- 3. Locate the cooling ribs marked with the arrow in Figure 2.
- 4. Turn the PISA12U on its side. A plastic cover covers the solder side of the PCB. Bend out the cover directly under the cooling ribs (about the middle of the topside of the PCB).
- 5. Insert the nozzle of the aerosol into the gap and apply some cold spray.
- 6. If the unit beeps, and goes into shutdown mode (indicated by a number counting down on the display) it is defective. If it continues to operate normally, it is OK.

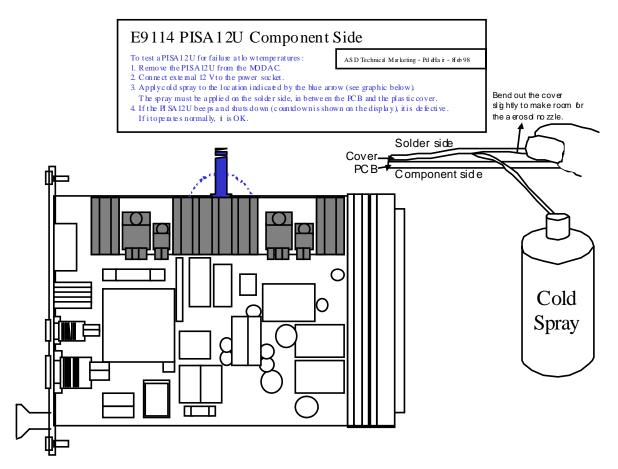


Figure 2. PISA12U Temperature test.