5314A-05A

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							SUPERSED	ES: 5314	A-05
5314	A Un	iversa	l Coun	ter					
Serial	Numb	ers: 000	0A00000	/ 2536	A99999				
Modi	ficatio	on to fi	x "Dea	d Zon	e" prot	olem			
To Be	Perfor	med By	: Agilent	-Qualif	ied Perso	onnel			
Parts 1	Requir	ed:							
P/N	•		Qty.		Descr	iption			
05314-	-60004		1		A4 TCXO Board Assembly				
1901-0	040		1			4 Diode	5		
0380-0	013		1		Space	(1 inch))		
2360-0			1			3/8 inch			
2360-0			1				ch Screw		
2420-0			2		6-32 N				
		ntificatio		h seria	l prefix b	elow 25	36A may exhibi	t a "Dead	Zone" at
							etween 9.99998		
							Hz. Serial prefix		
		t this pro		or end	city 10.0	111	112. Seriai preti		200011
do not	exilion	t tills pro	olenn.						
								(Continuea

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:								
	MODIFICATION I	RECOMMENDED						
ACTION CATEGORY:	 IMMEDIATELY ON SPECIFIED FAILURE AGREEABLE TIME 	STANDARDS: Labor 1.0 Hour						
LOCATION CATEGORY:	 CUSTOMER INSTALLABLE ON-SITE SERVICE CENTER 	SERVICE □ RETURN USED □ RETURN INVENTORY: ■ SCRAP PARTS: ■ SCRAP □ SEE TEXT □ SEE TEXT						
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	AGILENT RESPONSIBLE UNTIL: June 1993						
AUTHOR: MD	ENTITY: 0200	ADDITIONAL INFORMATION:						

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Technical Information:

The problem occurs because the input signal is routed close in proximity to the timebase. When the input signal is 10 MHz \pm 20 Hz, it is injected onto the timebase causing resonance and phaselock to occur. Because the timebase frequency is momentarily equivalent to the input signal frequency, the resulting display is 10.000000 MHz.

Solution/Action:

The most cost-effective and reliable solution is to install TCXO option 001. By installing option 001, the timebase is now removed from the input signal area and can no longer be affected by it.

Refer to pages 2-4 through 2-6 of the 5314A Operating and Service Manual, P/N 05314-90011, for option 001 installation instructions.