S E R V I C E   N O T E

SUPERSEDES: None

5340A Microwave Frequency Counter

Serial Numbers: 2432A09972 / 2532A11055

GPIB Lockup problem with Multiple Readings

To be Performed By: Customer /Agilent Qualified Personnel

Situation:

When in the Sample Rate Hold mode, "K", a new measurement may be initiated by sending an Reset command, "H", or a Trigger command "I". When A34U15 was changed from a 74L30 (1820-0589) to a 74ALS30 (1820-2773), this function became erratic. In order to obtain more reliable GPIB operation, change code "I" (Sample Trigger) to "H" (Reset) wherever it occurs in the program. If this is not possible, the A20 Time Base Assembly board can be modified to increase its clock rate from 2 to 5 MHz. This allows reliable trigger operation without affecting any other functions.

Continued

DATE: January 1997

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:		
MODIFICATION AVAILABLE		
ACTION CATEGORY:	AGREEABLE TIME	■ PERFORMANCE ENHANCEMENT ☐ SERVICE/RELIABILITY ENHANCEMENT
LOCATION CATEGORY:	■ CUSTOMER INSTALLABLE ☐ ON-SITE ☐ SERVICE CENTER	AVAILABLE UNTIL: January 1998

AUTHOR:
  CF
	ENTITY:
	  0200
		ADDITIONAL INFORMATION:

⁂ **Agilent Technologies**

Solution / Action

Modification Procedure A20 board 05340-60073

1. Cut track from pin 5 of PC connector to pin 6 of A20U24.

2. Cut track from W2 eyelet next to A20R1 to pin 12 of A20U24. Remove W2.

3. Cut track from pin 4 of PC connector to pin 5 of A20U24.

4. Connect pin 5 of PC connector to W2 eyelet next to A20R1 (Goes to pin 5 of A20U2).
    This supplies 10MHz into U2B and thence to pin 8 of A20U24. It is divided by two to
    produce 5 MHz at pin 5 of A20U24.

5. Connect A20U24 pin 5 to pin 6. This supplies 5 MHz to the divider and it is divided by 5
    to get 1 MHz at pin 12 of A20U24.

6. Connect pin12 of A20U24 to pin 2 of A20U23. This supplies 1 MHz into pin 2 of
    A20U23 as before.

7. Connect pin 6 of A20U24 to pin 6 of the A20 PC connector. This supplies 5 MHz into
    the count register, interface, and control instead of the previous 2 MHz.