						33120A-04				
S E F	र V	/	С	Е	Ν	0	Т	Е		
SUPERSEDES: NONE HP 33120AFunction/Arbitrary Waveform Generator										
Serial Numbers:		36015500	·		Generator	•				
RS232 Comm	d By: Tes	t may perf	formed by		ner, the part m	ust be orde	ered and			
Parts Required:	_		_	_						
Model		HP P/N		Dese	cription	Quantit	y			
HP 33120A Std HP 33120A Opt.0 HP 33120A Std	001 3	33120-898 33120-898 33120-898	01	Replace	ment Unit ment Unit ment Unit	1 1 1				
with Opt. 1BP HP 33120A Opt.0 with Opt. 1BP	001 3	33120-898	03	Replace	ment Unit	1				
							Continue	ed		
				DATE: July 1998						

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:

MODIFICATION RECOMMENDED

ACTION CATEGORY:	IMMEDIATELY ON SPECIFIED FAILURE AGREEABLE TIME	STANDARDS: LABOR 1.0 Hours				
LOCATION CATEGORY:	CUSTOMER INSTALLABLE ON-SITE HP LOCATION	SERVICE INVENTORY:	RETURN SCRAP SEE TEXT	USED PARTS:	RETURN SCRAP SEE TEXT	
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	HP RESPONSIBLE UNTIL: July 2000				
AUTHOR: REM	ENTITY: 0940	ADDITIONAL INFORMATION:				

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Situation:

- Improper fabrication of a programmable IC has resulted in production of some products that will not communicate through the RS-232 interface. The only product feature affected by this fabrication defect is the RS232 communications interface. All attempts to communicate across the RS232 interface will result in one of the following errors:
 - No response on the front panel keys of the instrument (no key clicks)
 - An error indication hardware and /or software
 - An instrument malfunction

Solution / Action:

Defective units can be identified by doing one of the following three tests:

1) Have a qualified service technician remove the rear bezel and cover and visually inspect the IC listed below:

Inspection criteria: The defective IC will have a yellow paper label with markings: 34401-88842 Rev 5

- Note: This IC (U903) is located near the HPIB connector. Component Locator Diagram may be found in the Product Service Guide, page 142.
- 2) This test uses front panel menu selections and a jumper between two pins on the RS232 connector.
 - Setup your unit for RS232 communication, use the following keystrokes:
 Shift Menu ON
 >,>,>,> to the "INPUT/OUTPUT" menu
 - 3. V, > to the "INTERFACE" menu
 - 4. V, > to the "RS232", ENTER
 - 2. Turn the unit off and place a small jumper between pin 2 and pin 4 of the RS232 connector (located on the back of the unit).
 - 3. Turn unit on. A defective IC will cause the unit to give you an error "625" and beep continuously.
 - 4. Good units will give an error "511" and only beep once.
- This test requires the user to connect the unit to a Personal Computer with an RS232 cable (F1047-80002 or equiv.) and attempt to communicate using:
 - HP 34811A BenchLink Arb
 - Win 3.1 Terminal
 - Win95 Hyper Terminal

(Please refer to your HP 33120A User Guide, Chapter 4 Remote Interface Reference, Section - RS232 Interface Configuration, for the proper configuration between your computer and the unit being tested.)

After you connect the unit to a PC with the proper RS232 cable and configure the interface, try sending "*IDN?" command. If the unit has a defective IC there will be no response. If you receive back the instruments identification string then the instrument does not have a defective IC.

Units that to meet the criteria listed below are defective.

Criteria:

- Within the listed serial number range

- One of the three tests has been performed and the results indicates a defective unit

Defective units are to be exchanged for a proper replacement unit (See part number listed above).

Please return the defective unit directly to the factory using the enclosed prepaid shipper or to:

Hewlett-Packard 815 14th Street S.W. Loveland, CO. 80537 USA Attn: Instrument Repair Coordinator; MS DU402