

37722A-03

S E R V I C E N O T E

SUPERSEDES: None

HP 37722A Digital Telecom Analyzer

Serial Number: 0000U00000 / 9999U99999

Display flicker not a fault when used in graph storage mode

Duplicate Service Notes:

37701A-09
37702A-03
37704A-03
37717A-07
37717B-04
37721A-13
37724A-07
37732A-06

Situation:

Some instruments appear to flicker when used in the graph storage mode, independent of storage resolution. When the measurement start the pattern on the display changes to indicate both the start of gating and start of storage. This display may flicker. This is not a fault. **DO NOT CHANGE THE DISPLAY!**

Replacing the display **WILL NOT** fix the anomaly.

DATE: October 1996

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:		
INFORMATION ONLY		
AUTHOR:	ENTITY:	ADDITIONAL INFORMATION:
GS	1400	

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Note:

It is extremely unlikely that customers will ever stumble across this problem.

Solution/Action:

In the event of a customer complaint of “instrument stuck gating continuously”:

1. Use the table above to identify the parts to be replaced.
2. Use the Kit Contents table following to identify the part numbers to be replaced.
3. Order the parts, then use the following procedure to fit the parts.

Note:

For instrument with Firmware Revision Number (Main) in the range 3 150 to less than 3222, exclude procedure steps 13 and 14.

Kit Contents

HP Part No.	Description
37722-80055	PROM A2U2
37722-80057	PROM A2U57
37722-80010	Serial PROM A11U13
37722-80016	PROM A2U66
1820-6533	A11U16,18 & 20 - XILINX

Procedure contents

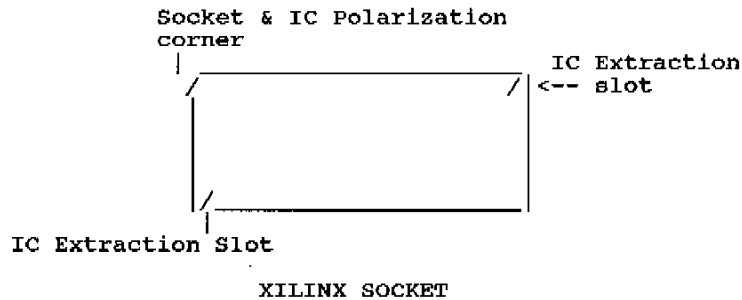
- Accessing for parts replacement procedure.
- Accessing for Service illustration.
- A11 Assy Component Location Layout.
- A2 Assy Component Location Layout.

Accessing for parts replacement procedure.

Use the following procedure to access the A11 and A2 parts to be replaced.

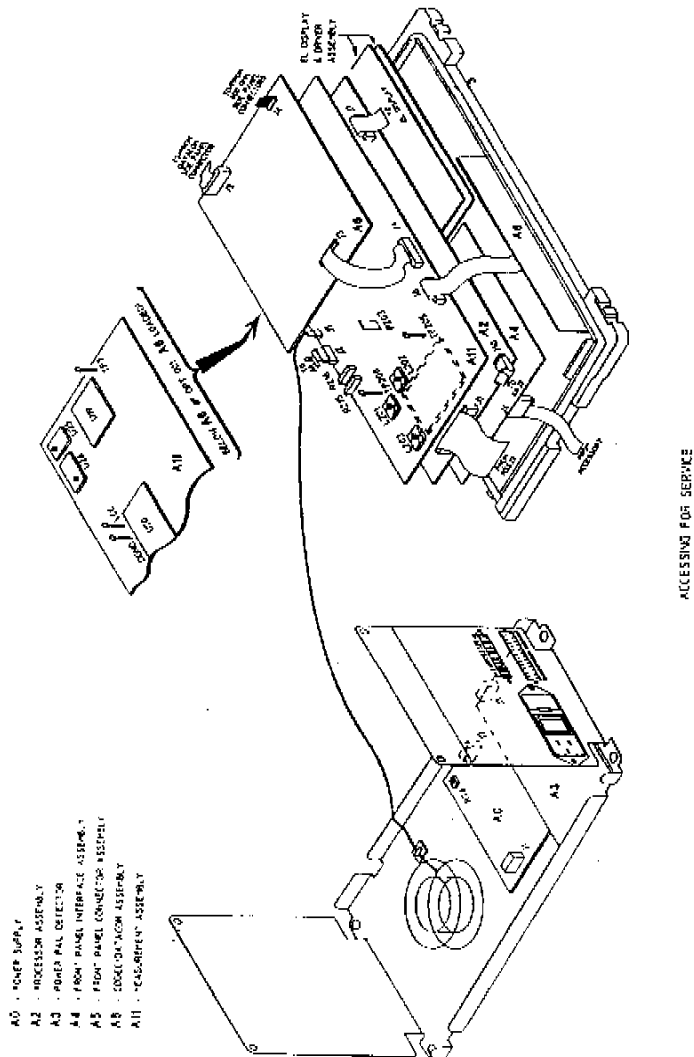
1. Switch off and remove the power from the instrument.
2. Place the instrument face down with the carrying handle away from you.
3. Remove the rear panel feet (four screws).

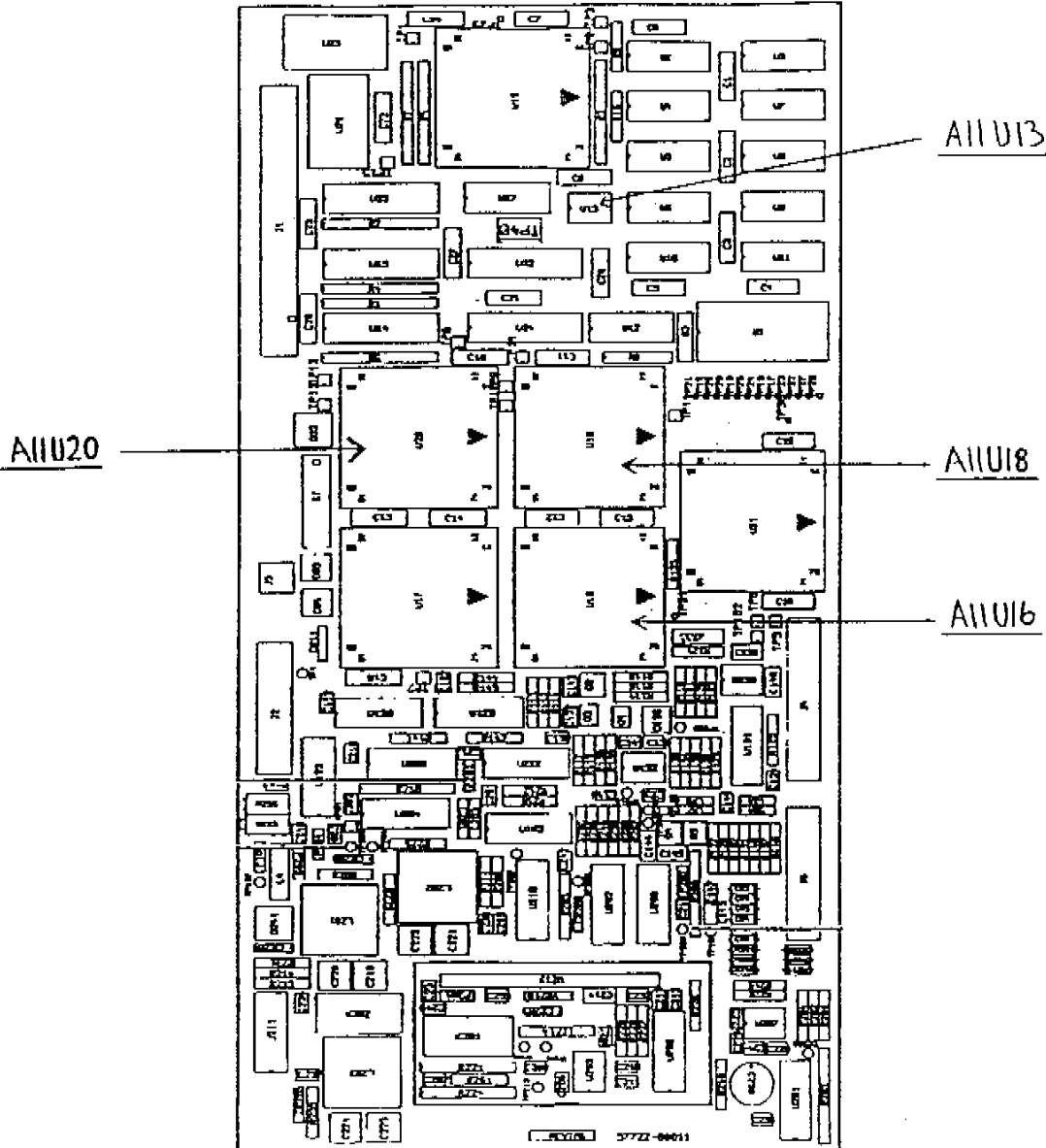
4. Lift off the instrument case. Note the warning “WARNING HIGH VOLTAGE WITHIN” found on the inner case.
5. Remove the RS-232 and ACCESSORY connectors (side panel - left hand side) securing nuts/screws. Take note of which nuts/screws secure which connector as the threads differ.
6. If the instrument is an option 005/006, remove the 4-way connector from A6J4 (located on the topmost board - right hand side).
7. If the instrument is an Option 005/006, remove the Datacom connector (side panel - right hand side) securing nuts/screws.
8. Remove the inner metal case screws (four screws, two either side).
9. Lift off the inner metal case and place it away from the main body of the instrument, to extreme cable lengths as shown in the following ACCESSING FOR SERVICE figure. The Power Supply and the Power Fail Detector assemblies are removed with the metal case.
10. If the instrument is an Option 005/006 remove the connector from A1J4 (50 way ribbon cable).
11. If the instrument is an Option 005/006, remove the A6 securing screws (4) and fold the A6 Assy back over its connecting ribbon cable - the A6 Assy can be removed completely, if necessary.
12. Remove the A11 Assy securing standoffs and screws (4 of each) and the connector fitted to A11J6 (20 way ribbon cable). Note: Some units are secured by screws only.



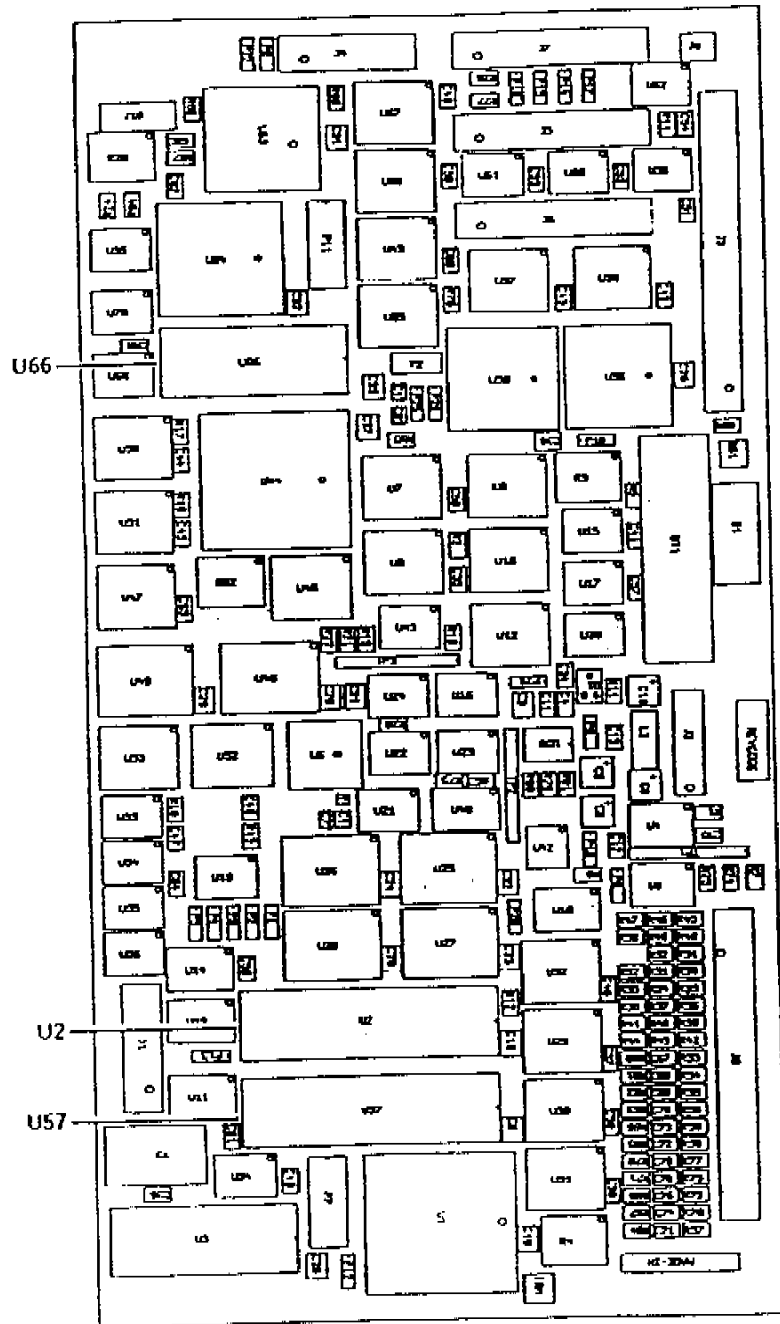
13. Use the A11 Assy Component Location Layout to identify the parts to be replaced (fitted in sockets) and remove the existing A11U16, A11U18, A11U20 and A11U13 - (see illustration of the XILINX devices below), the recommended extraction tool is manufactured by BURNDY and is a QUILEXT- 1 universal extraction tool. If using other than this tool for extraction (ie. a needle like awl) great care must be taken to avoid socket damage.

14. Fit the new XILINX devices (1820-6533) into sockets A11U16, A11U18 and A11U20 (see illustration above for IC orientation) and the new Serial PROM (37722-80010) into A11U13.
15. Fold the A11 Assy back over its connecting ribbon cable.
16. Use the A2 Assy Component Location to identify the parts to be replaced (all fitted on sockets) and remove the existing A2U2, A2U57 and A2U66 parts. A2U66 may already have p/n 37722-80016 fitted. If so, leave existing PROM in place.
17. Fit in the new Proms as follows: A2U2 - 37722-80055, A2U57 - 37722-80057 and A2U66 - 37722-80016.
18. Rebuild the instrument in reverse order.





A11 Component Location



A2 Component Location Layout