

37701A-05

S E R V I C E N O T E

SUPERSEDES: None

**HP 37701A T1 Tester**

**Serial Numbers:** 0000U00000 / 3126U00401

**Battery holder modification to the A2 Processor Assy to make NVM battery replacement easy.**

**Situation:**

NVM battery life expectancy is typically 18 months. This is seen as an inconvenience to customers and so, battery accessibility is improved, to make replacement easy.

**Action:**

In the event of an A2 Processor Assembly NVM battery failure - instrument settings and stored measurement data not remembered, or status message "NON VOLATILE MEMORY FAILURE" displayed - order and retrofit the following parts:

Note: Once this modification has been done on an instrument, any future NVM battery replacement is done at a cost to the customer, unless the installation is during it's warranty period.

HP Part No.	Description	Qty.
1420-0315	Battery 3.6V	1
37701-60047	Battery Holder	1
37701-00047	Bracket	1
0515-1430	Screw	2
0360-1788	Test Pin	2

*Continued*

DATE: 28 July 1993

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:			
<b>MODIFICATION RECOMMENDED</b>			
ACTION CATEGORY:	<input type="checkbox"/> IMMEDIATELY <input checked="" type="checkbox"/> ON SPECIFIED FAILURE <input type="checkbox"/> AGREEABLE TIME	STANDARDS:	LABOR: 1.5 Hours
LOCATION CATEGORY:	<input type="checkbox"/> CUSTOMER INSTALLABLE <input type="checkbox"/> ON-SITE <input checked="" type="checkbox"/> HP LOCATION	SERVICE INVENTORY:	<input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	USED PARTS:	<input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AUTHOR: ER	ENTITY: 1400	RESPONSIBLE UNTIL : 28 July 1995	
		ADDITIONAL INFORMATION:	



Use the following procedure to access the A2 Processor Assembly and make the modification.

#### **Accessing the A2 Measurement Assy**

If the instrument has a Datacom Module fitted, removal of the datacom part should help make the retrofitting of parts easier.

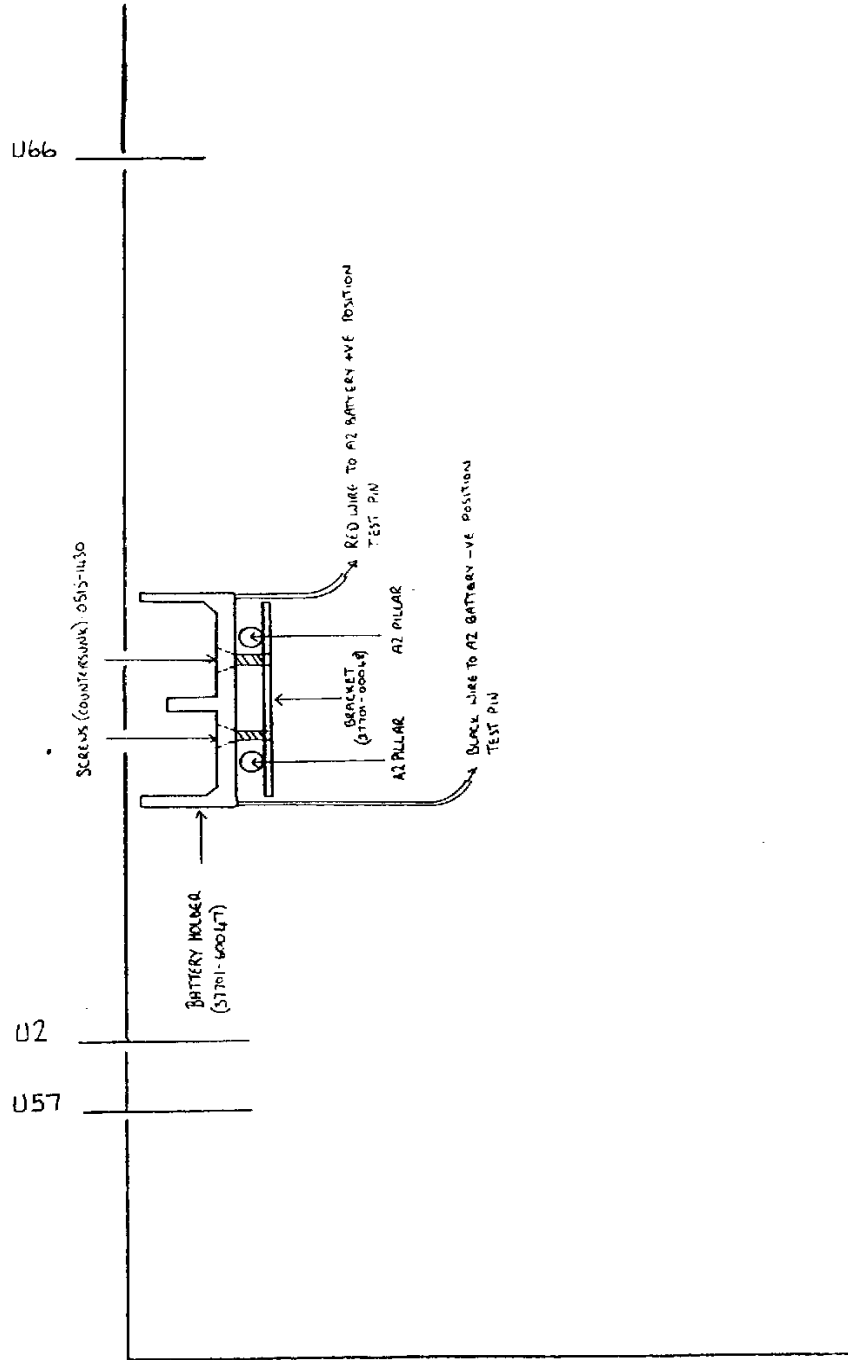
#### **Procedure:**

Use the following procedure to access the 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 metal case.
5. Remove the inner metal case screws (four screws, two on either side).
6. Lift off the inner metal case and place it away from the main body of the instrument, to the extreme of the cable lengths. The Power Supply and the Power Fail Detector assemblies are removed with the metal case.
7. Remove the A6 Assy securing screws (4 off) and fold the A6 Assy back over its connecting ribbon cable.
8. Remove the A1 Assy securing standoffs and screws (4 of each) and the connector fitted to A1J4 (situated below metal cover).
9. Fold the A1 Assy back over its connecting ribbon cable.
10. Use the A2 Component Location Layout to identify the battery part and remove the NVM battery.
11. Fit one of the test pins (0360-1788) to the existing battery positive side and the other test pin to one of the existing battery negative sides.
12. Use both of the A2 Component Location Layout illustrations to aid you in fixing the battery holder to the A2 assembly pillars.
13. Once the battery holder is secured and the leads connected then fit the new battery (1420-0315) in the holder.
14. Reassemble the instrument in reverse order.

#### **Operational Verification**

15. Switch on the instrument power, select a particular set of settings (ie 64 Kb/s BER) and then cycle instrument power (ON/OFF).
16. Ensure that the instrument powers up with the settings it had when it powered down.
17. Run instrument self tests.



P/O A2 Component Location Layout

