

S E R V I C E N O T E

SUPERSEDES

4991A LanProbe

Serial Numbers: 0000A00000/3012A02258

Modification to 4991A Power Supply Connectors P1 and P2

Parts Required:

Qty.	Part Number	Description
1	2360-0115	Screw
1	0360-0009	Solder Lug
1	2190-0007	Internal Lock Washer

Situation:

The Power Supply connectors P1 and P2 are not reliable and they tend to fail which causes intermittent instrument power-up cycles during normal use. The problem can be traced to the failure of the ground lead contacts (gray wires) at the two connectors (P1 and P2).

Continued

DATE: 15 August 1991

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:			
MODIFICATION RECOMMENDED			
ACTION CATEGORY:	<input type="checkbox"/> IMMEDIATELY <input checked="" type="checkbox"/> ON SPECIFIED FAILURE <input type="checkbox"/> AGREEABLE TIME	STANDARDS:	LABOR 0.7 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 checked="" type="checkbox"/> SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	USED PARTS:	<input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input checked="" type="checkbox"/> SEE TEXT
AUTHOR: NB	ENTITY: 3800	RESPONSIBLE ENTITY: 3800	UNTIL: Support Life
ADDITIONAL INFORMATION:			

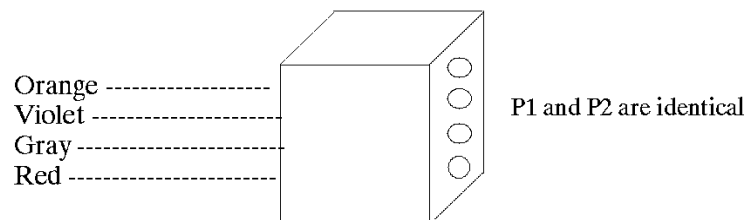
Previous Fixes:

Service Notes 4991A-03 and 4991A-07 addressed similar issues and should be done if applicable. These service notes 4991A-03/07 included the addition of wire harness 04991-61610. This service note 4991A-12 provides an enhanced ground for the power supply.

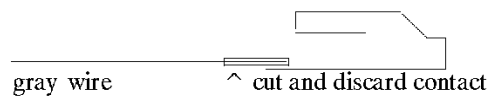
Modification:

Upon receipt of the HP 4991A LanProbe due to failure, this modification should be done. Follow the procedure to effect the modification:

1. Locate P1 and P2, power supply connection from the power supply to the main board. Locate the gray wires and remove the entire leads with their contact from the connector housing.

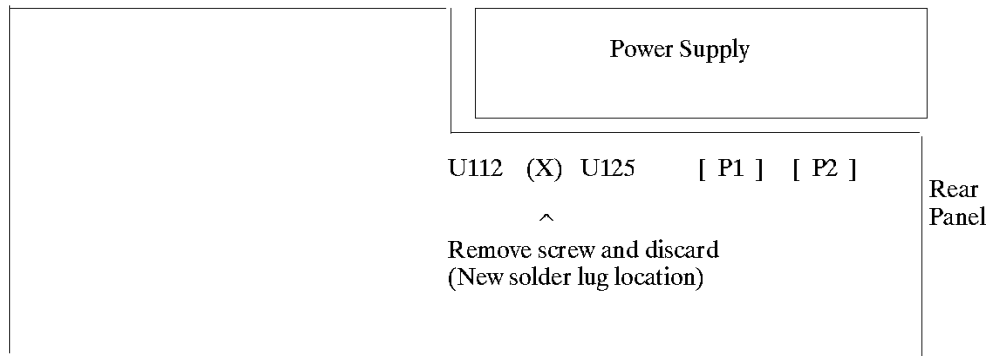


2. Cut off both contacts where the gray wires are crimped to the contacts.



3. Strip about 3/8in.(10mm) insulation from the ends of the gray wires.

4. Locate U112 and U125 on the main board and remove the screw (discard) as shown from between the two ICs, note diagram:



5. Mount solder lug terminal 0360-0009 at the screw location with new screw 2360-0115 and the lock washer 2190-0007 next to the PC board. Ensure that the solder lug does not touch any electrical trace or any IC lead. Bend the solder lug leads up and away from any IC leads.
6. Wrap and solder the gray wires to the two soldering terminals.
7. Mount the power connectors from the power supply (P1 and P2) back onto the main board.
8. Inspect the wiring, ensure no frayed wires are touching any electrical traces or the IC leads. Ensure proper connections of P1 and P2.
9. Power up the 4991A and ensure Performance Verification has occurred with no failures.