# S E R V I C E   N O T E

SUPERSEDES:  NONE

## OmniBER 37718 / 37719 Comms Performance Analyzer

### Build Code Status 3:30 and below

37718A/19A Option 110
37718A/B/C Option 012
37719A/B/C Option 013

### Duplicate Service Notes

37718A-03
37718B-01
37718C-01
37719A-01
37719B-01
37719C-01
37717C-15

### Situation

The following modification is recommended to eliminate potential overheating and premature failure of DSn DS1 Drop (Demux) Port driver.

### Implementation

It is recommended this modification is implemented as and when units become available for routine service.

*Continued*

DATE:  August 2000

## ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:

# MODIFICATION RECOMMENDED

| ACTION CATEGORY: | ☐ IMMEDIATELY<br>☐ ON SPECIFIED FAILURE<br>■ AGREEABLE TIME | STANDARDS:<br>LABOR  1.0  Hours | | | |
|---|---|---|---|---|---|
| LOCATION CATEGORY: | ☐ CUSTOMER INSTALLABLE<br>☐ ON-SITE<br>■ SERVICE CENTER | SERVICE INVENTORY: | ☐ RETURN<br>☐ SCRAP<br>☐ SEE TEXT | USED PARTS: | ☐ RETURN<br>☐ SCRAP<br>☐ SEE TEXT |
| AVAILABILITY: | PRODUCT'S SUPPORT LIFE | AGILENT RESPONSIBLE UNTIL:  August 2002 | | | |
| AUTHOR:  DG | ENTITY:  E610 | ADDITIONAL INFORMATION: | | | |

**⋯✴⋯ Agilent Technologies**

**Parts Required**

10Kohm Resistors p/n 0699-1391, 2 off

**Note:**

> If failure of the DS1 Drop (Demux) Port is already evident, the
> U506 will also need to be replaced, before implementing this
> modification.

Usually, where failure has occurred, this will be detected when running BER Self Tests as failure
code 18411 will be displayed. However, partial failure of the Drop port can be missed by the
Self-Test and the External Mux/Demux Performance Test provides a more comprehensive check.

U506 IC PN 1820-8942 (ONLY to be replaced in instances where DS1 Drop [Demux] Port has
failed).

This modification applies to the following PDH/Dsn Receiver modules.

37717-60081 - 'new' module used in 37718A/19A option 011

37717-69081 - 'exchange' module used in 37718A/19A option 011

37718-60043 - 'new' module used in 37718A/B/C option 012 or 37719A/B/C 013 (Bantam
Connectors)

37718-60046 - 'new' module used in 37718A/B/C option 012 (Siemens Connectors)

Note: Performing this modification requires an Anti-Static environment, suitable tools and some
experience of modifications to assemblies with surface mounted components.

**Procedure**

1. Check the DSn Drop Port operation using the BER Self Test and the External MUX/DE-
   MUX Performance checks.

 If the Port fails these tests, check DSn port balanced cabling and test set-up etc to ensure this is
 OK and if port is confirmed faulty continue from step 2 of this procedure.

2. Note: Only perform this step if DSn Drop Port is defective. Remove/replace U505 (PN
   1820-8942) taking note of orientation.

3. Solder a 10k ohm resistor Ra (0699-1391) to rh pin of TP8.

4. Solder a 10k ohm resistor Rb (0699-1391) to rh pin of TP8.

5. Add a wire link from vacant end of Ra to U506 pin 1 using insulated wire
   (see Figures 1 and 2).

6. Add a wire link from vacant end of Rb to U506 pin 7 using insulated wire
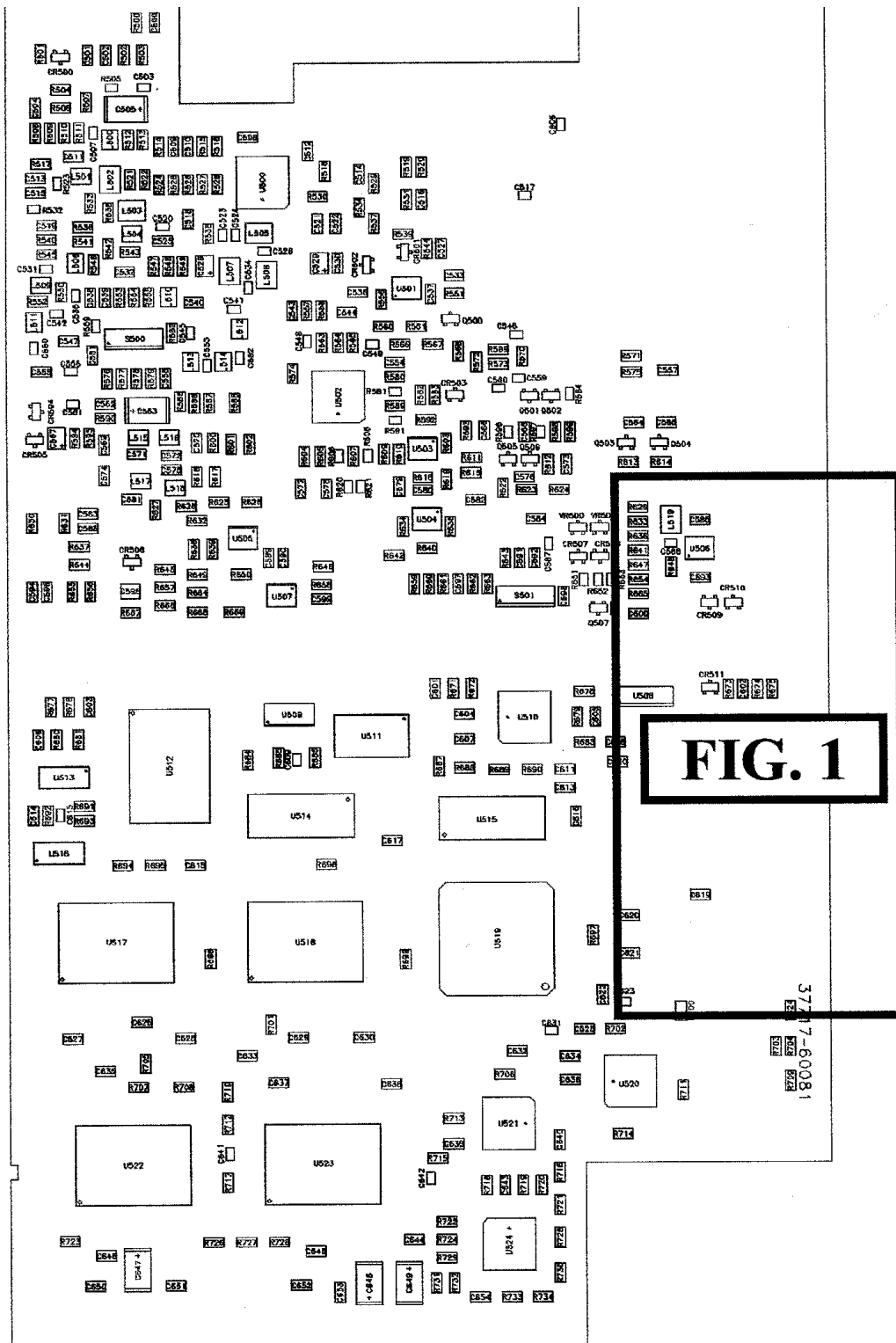   (see Figures 1 and 2).

*Continued*
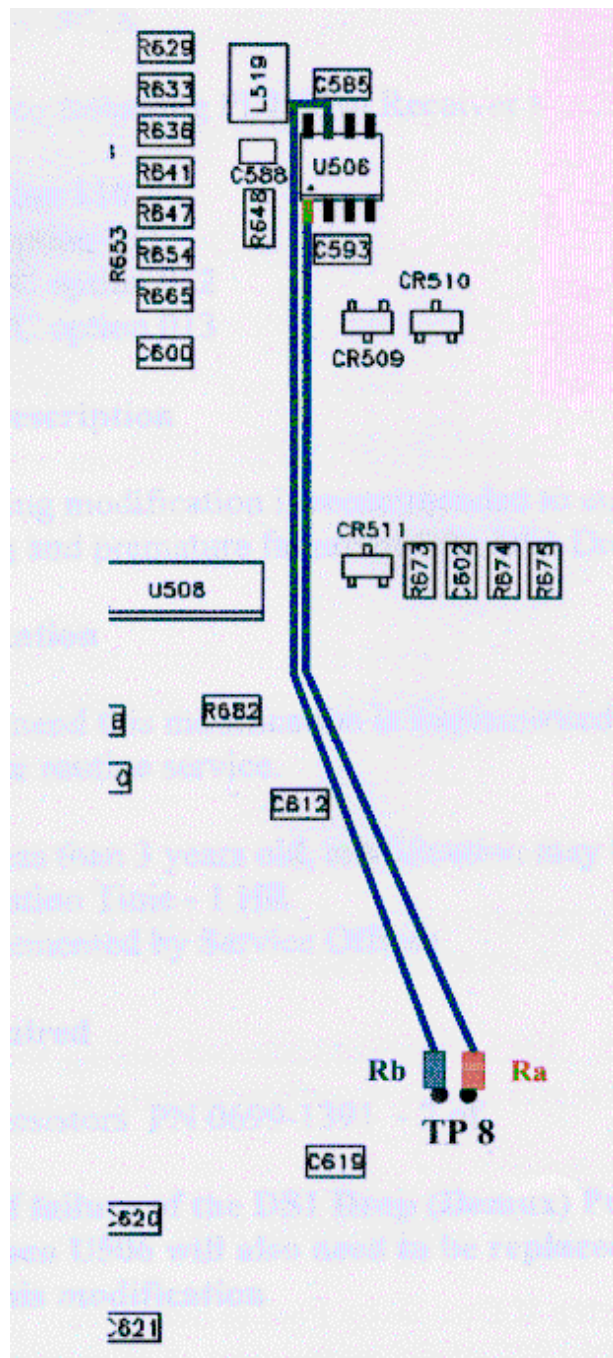
**Figure 1. Location of Components.**

**Figure 2. Position of Wire Link.**

7. Reinforce with epoxy.

8. Refit module and confirm correct operation of the Drop Port as in step 1.

9. Fit a label to the rear of the instrument to indicate that this Service Note has been implemented.

10. Record the modification on CSO for future records.