

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

SUPERSEDES: NONE

**37717C PDH/SDH/Jitter Test Set**

Serial Numbers: GB00000000/GB99999999

Firmware Revision: Below A.01.05

**Upgrading the Instrument Firmware**

To be Performed by: Qualified Service Personnel

**Parts Required**

Description	Part Number	Quantity
Set of firmware Upgrade discs	Contact Product Support	01

*Continued*

DATE: August 1996

## ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:

**MODIFICATION RECOMMENDED**

ACTION CATEGORY:	IMMEDIATELY ON SPECIFIED FAILURE AGREEABLE TIME	STANDARDS: LABOR 0.5 Hours
LOCATION CATEGORY:	CUSTOMER INSTALLABLE ON-SITE SERVICE CENTER	SERVICE INVENTORY: RETURN SCRAP SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	USED PARTS: RETURN SCRAP SEE TEXT
AUTHOR: DBG	ENTITY: E610	AGILENT RESPONSIBLE UNTIL: August 1997
		ADDITIONAL INFORMATION:

**Situation**

A new revision of firmware is available for the 37717C. This revision adds the following new features;

- Full operational capability of the disc-drive.
- Operation of the Centronics Printer Interface (Option A3B or A3D)
- Operation of the LAN Interface where fitted (Option A3B).
- Elimination of a number of minor bugs which were present in earlier versions.

It is recommended that all units with firmware Revision Number below that listed above be upgraded with new firmware.

**NOTE**

If option A3B is fitted, this will need to be enabled after the firmware has been upgraded to get the LAN Interface capability.

**Procedure**

Before updating the firmware, confirm the Revision fitted to your instrument.

The FIRMWARE REVISION number appears on the [REMOTE/PRINTER] options page.

Access this page as follows;

1. Press the OTHER key then [ MORE ] softkey until a softkey labeled [ OPTIONS ] is displayed.
2. Press the [OPTIONS] softkey then select [REMOTE/PRINTER] Options.

The MAIN and AUX firmware numbers will be displayed at the bottom of this page.

3. Check the Main Firmware Revision Number. If this is in the affected range, use the following upgrade procedure to install the new firmware.

**Upgrading the Firmware**

Use the following procedure to upgrade the firmware in the 37717C.

1. Power on the instrument and check for a valid display.
2. Press OTHER key, then [MORE] softkey then select the [CALIBRATION] function.
3. Select CALIBRATE PASSWORD and using the DECREASE DIGIT and INCREASE DIGIT softkeys set the password to [1243]
4. Select CALIBRATION ITEM : [FIRMWARE UPGRADE].
5. Fit Disc 1 (from the set of discs supplied in this kit) into the disc drive slot with the disc label facing towards the instrument Front Panel.
6. Answer each question displayed on the screen using the appropriate keys. When you have answered all questions, the instrument will commence downloading data from Disc 1. This process will take from 5-10 minutes.

**NOTE**

Select <program> when asked if you want to verify the discs.  
Verification is not required.

When data transfer from Disc 1 is complete, the display will show;

*Insert next disc & press any key*

Use <single error key> to abort update.

7. Repeat steps 5 to 7 with the other discs supplied in the Retrofit Kit.

When data transfer from the last disc is complete, the display will show;

*To use new code press any key*

Use <single error key> to abort update.

8. Press TRANSMIT key to initialize the instrument.

9. After initialization. press TRANSMIT key again to restart the instrument.

The firmware upgrade is now complete.

**Enabling the LAN Interface (Option A3B)**

If an option A3B label is fitted on the instrument rear panel, then the LAN Interface hardware will already be fitted. To use the hardware, you will need to DISABLE the option A3D in the instrument memory and ENABLE the option A3B instead.

**Disabling A3D**

1. Switch on the instrument.

2. Make the following key sequence to obtain the OPTION ENABLE display.

Press [OTHER]; [<^]; [MORE]; [<^]; [MORE]; [<^]; [MORE]; [OTHER].

Press [MORE] until OPTION ENABLE appears in the softkey menu.

3. Press OPTION ENABLE softkey.

4. Move cursor down one place and select the option to be added.

5. Move cursor down one place and select [NOT FITTED].

6. Move cursor to CODEWORD field and insert the special codeword into this field using the [<],[>], and [INCREASE DIGIT], [DECREASE DIGIT] softkeys.

37717C SERIAL NUMBER.....

OPTION TO BE REMOVED..... A3D .....

CODEWORD .....

**NOTE**

This CODEWORD is unique to every 37717C unit and can only be obtained by contacting the Agilent TNTD Product Support Engineer.

7. Move the cursor to TOGGLE TO SET OPTION field and enable the option by pressing the [SET OPTION] softkey. The display will flash momentarily and the message "Option Structure Changed" will be displayed. The unit will assume Default Settings.
8. Press the OTHER key then [ MORE ] softkey until softkey labeled [OPTIONS] is displayed.
9. Press the [OPTIONS] softkey and ensure that A3D has been removed.

**Adding A3B**

1. Switch on the instrument.
2. Make the following key sequence to obtain the OPTION ENABLE display.  
Press [OTHER]; [<^]; [MORE]; [<^]; [MORE]; [<^]; [MORE]; [OTHER].  
Press [MORE] until OPTION ENABLE appears in the softkey menu.
3. Press OPTION ENABLE softkey.
4. Move cursor down one place and select the option to be added.
5. Move cursor down one place and select [NOT FITTED].
6. Move cursor to CODEWORD field and insert the special codeword into this field using the [<],[>], and [INCREASE DIGIT], [DECREASE DIGIT] softkeys.

37717C SERIAL NUMBER.....

OPTION TO BE ADDED..... A3B .....

CODEWORD.....

**NOTE**

This CODEWORD is unique to every 37717C unit and can only be obtained by contacting the Agilent TNTD Product Support Engineer

7. Move the cursor to TOGGLE TO SET OPTION field and enable the option by pressing the [SET OPTION] softkey. The display will flash momentarily and the message "Option Structure Changed" will be displayed. The unit will assume Default Settings.
8. Press the OTHER key then [ MORE ] softkey until softkey labeled [OPTIONS] is displayed.
9. Press the [OPTIONS] softkey and ensure that A3B has been added.

**Checking the LAN Interface MAC Address (Option A3B only)**

Every instrument shipped with Option A3B LAN interface has a unique MAC address associated with it. This address is stored in the instrument memory at the factory and should not require changing during the life of the instrument.

Check the MAC address in memory after enabling option A3B by carrying out the following procedure:

1. Switch on the instrument and press the OTHER key then [MORE] softkey. Select the [CALIBRATION] function.
2. Select CALIBRATE PASSWORD and set to [1243] using the INCREASE DIGIT and DECREASE DIGIT softkeys.
3. Select the calibration item [SET MAC ADDRESS].

The MAC Address is displayed at the bottom of this page.

37717C SERIAL NUMBER.....

MAC ADDRESS.....

If the MAC Address displayed on the instrument is different to that shown here, then you will need to change it as follows;

4. Move the cursor to the [MAC ADDRESS EDIT] field and change the address to that shown above using the INCREASE DIGIT and DECREASE DIGIT softkeys.
5. Move the cursor to the [ACCEPT CHANGES] field and press the ON softkey.
6. Ensure the change is reflected at the bottom of the display.

**Testing**

1. Power on the instrument and check for a valid display.
2. Obtain a pass on all instrument Selftests.

The instrument is now ready for use.