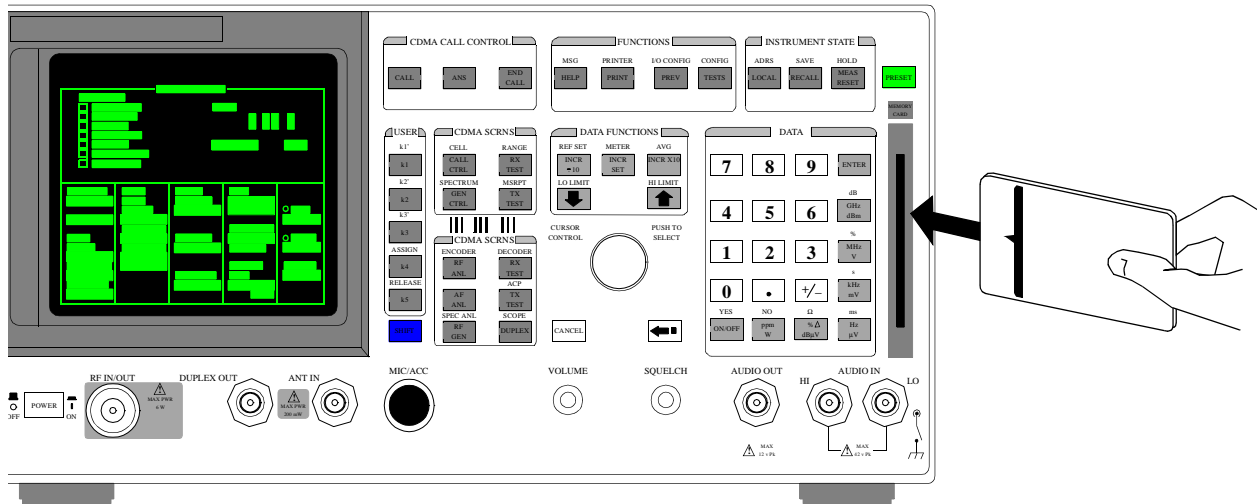


# HP 83217A Test Software Introduction to Operation



HP Part No. 83217-90005  
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August 1999

Rev. E

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## Contents

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**HP 83217A Introduction to Operation**

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## **Read Me First**

The Introduction to Operation is a step-by-step procedure designed to acquaint you with the HP 83217A software. The instructions will guide you through the following operations:

- Loading a test procedure
- Running a test procedure
- Modifying the order of tests in a test procedure
- Modifying parameters and specifications in a test procedure
- Saving a customized test procedure
- Modifying test execution conditions

To follow this procedure, you must obtain the following equipment:

- The HP 83217A PCMCIA memory card.
- The HP 8924C or HP E8285ACDMA Mobile Station Test Set.
- A CDMA dual-mode mobile station, programmed to operate in both CDMA and analog modes.
- A test fixture for making an RF connection from the mobile station to the Test Set.
- A dc power source for the mobile station; either a charged battery or a dc power supply with a fixture for connecting power to the mobile station.
- A BNC to BNC cable.
- An initialized PCMCIA SRAM memory card.

Refer to “To Initialize a Memory Card (DOS Format)” of the *HP 83217A User’s Guide*.

If you are testing PCS mobile stations using HP 83217A Option 004 software and you are not using the HP E8285A, you must obtain the following additional equipment:

- The HP 83236B PCS Interface
- Two type N to type N cables, part number 83236-61602.
- One BNC-BNC cable, part number 8120-1839.
- One SMC-SMA cable, part number 83215-61643.
- One serial DB-9 to RJ-11 serial cable, part number 83236-61601.

Regardless of which equipment you are using, you must also know the CDMA channel number (including channel standard) of the mobile station you will be testing, and, if the mobile station does not roam, you must know the system ID (SID) and network ID (NID).

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## Section I. Getting Started

### 1. Power up the Test Set.

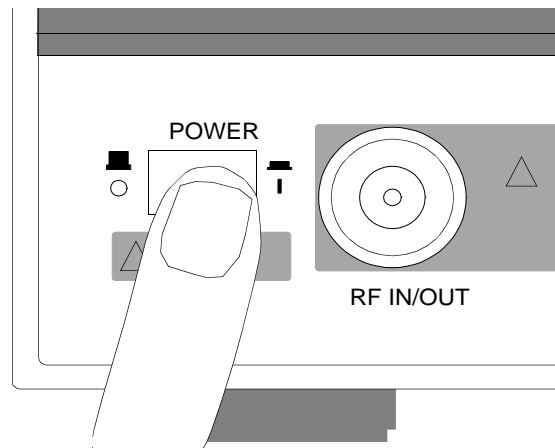
**NOTE:**

If you are using the HP 83217A software with the HP 83236B PCS Interface in testing PCS mobile stations, you must turn on power to the PCS Interface before turning on power to the Test Set.

- a. Press the POWER key.

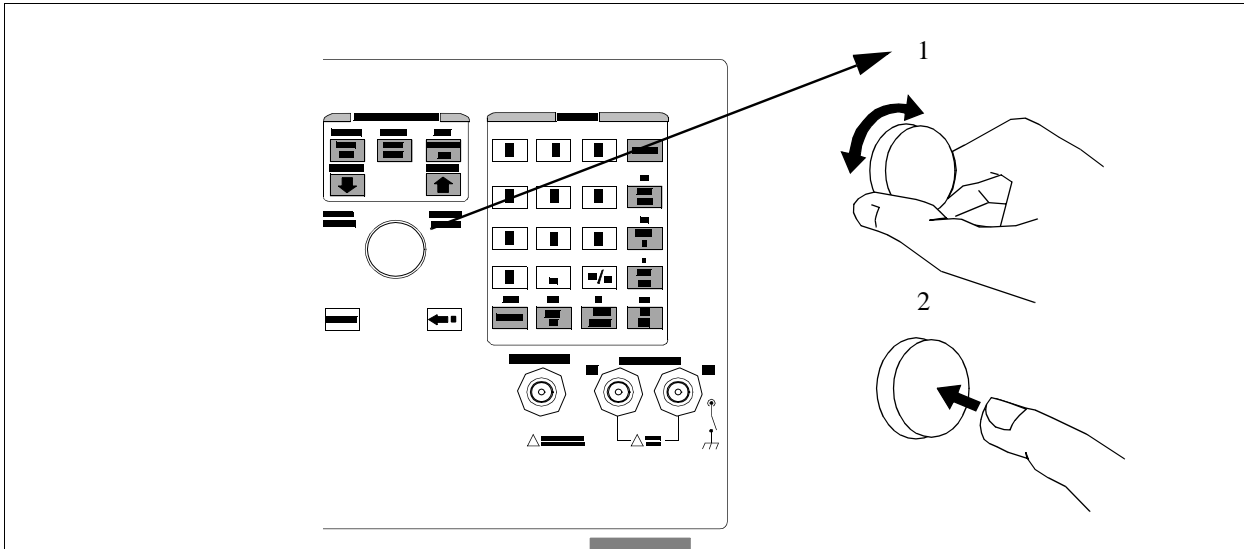
*If power is already on, perform an off/on power cycle by pressing the POWER key two times; once to turn the power off, and once to turn the power back on.*

*During the power-up routine, a world map appears. When the world map disappears, the power-up routine is complete. This routine takes approximately 1 minute to complete.*





## 2. Familiarize yourself with the CURSOR CONTROL knob.



Throughout this tutorial, the terms “position” and “select” are used to describe the action of the cursor, which appears as a small, lighted rectangular box.

### 1. Position

To position the cursor, rotate the cursor-control knob.

### 2. Select

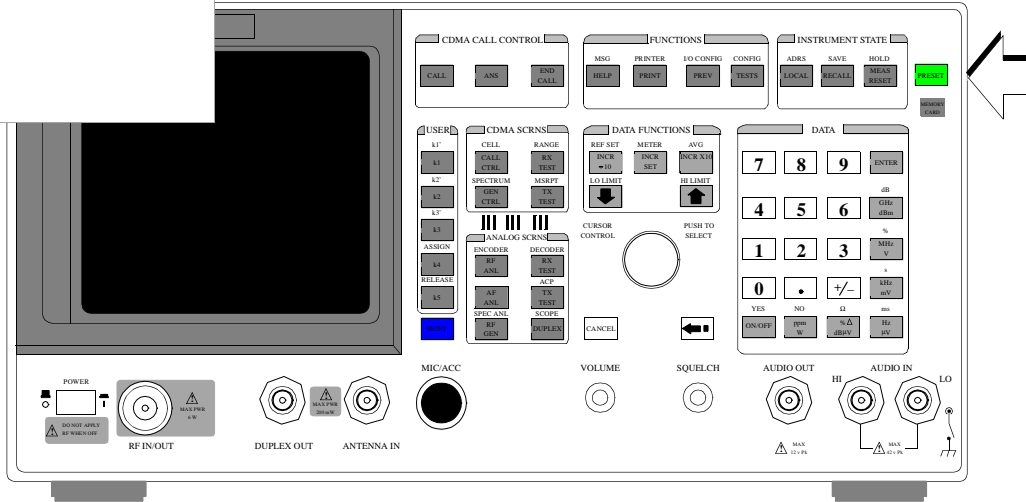
To select, position the cursor in front of a field or menu item and press the cursor-control knob.

When a field is selected, one of several actions may occur; the background of the item selected may become highlighted (brighter intensity), a selection may be underlined, or an item from a list of choices may be copied into a selected field.

If you are unfamiliar with operation of the Test Set, turn the cursor-control knob now to position the cursor at any field and select it.

3. Preset the Test Set.

a. Press the PRESET key.



The CDMA CALL CONTROL screen should be displayed.

CDMA CALL CONTROL

Call Status <input checked="" type="checkbox"/> Transmitting <input type="checkbox"/> Registering <input type="checkbox"/> Page Sent <input type="checkbox"/> Access Probe <input type="checkbox"/> Connected <input type="checkbox"/> Softer Handoff <input type="checkbox"/> Hard Handoff	MS FER <h1 style="margin: 0;">0.00 %</h1> Avg Power      Off	
RF Channel 700 Register Softer Handoff Resin/End Answer Mode Auto/Manual Call Limit None/Page	MS FER Report Interval 320 frames by # frames On/Off by # errors On/Off 5	Traffic Data Mode Svc Opt 2 Data Rate Full Power Meas Zero
MS ID MIN 12B4ACFE7 MS Database Pwr Class Class III Sector A Power -40.0 dBm/BW	To Screen <input checked="" type="checkbox"/> CDMA CALL CNTL <input type="checkbox"/> Analog RX TEST Config TESTS	

callcntl.pcx

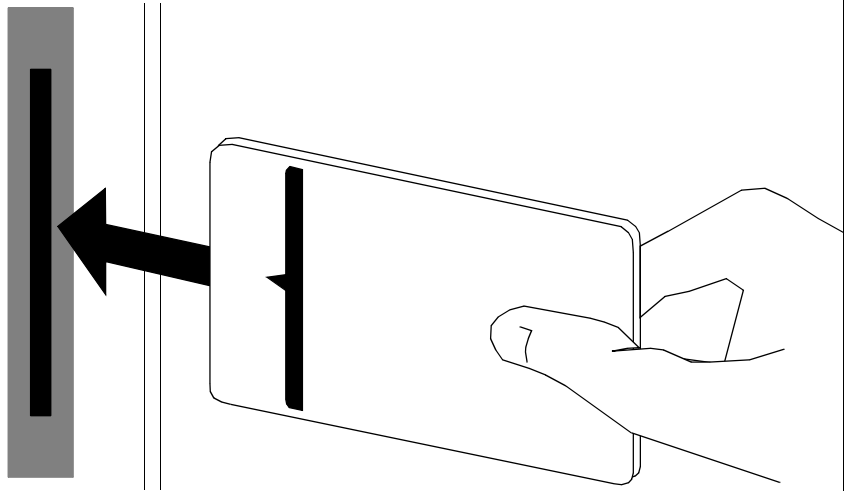
#### 4. Insert the software memory card.

- a. Push the memory card firmly into the slot.

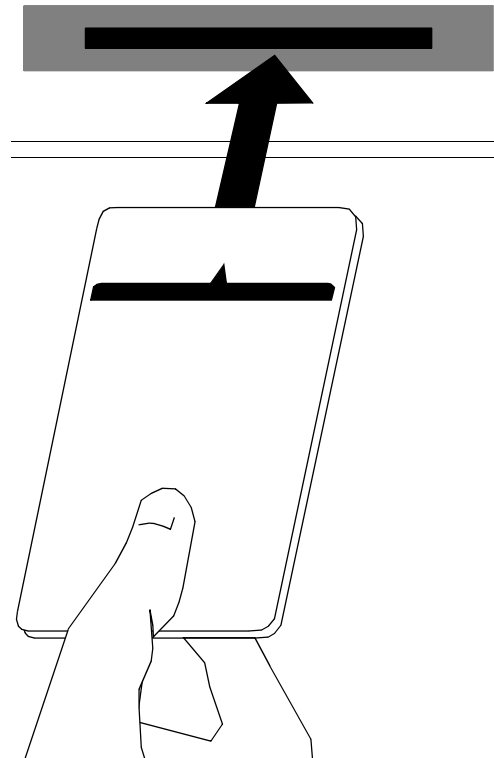
*Use the label markings to determine the left side of the card as it is being inserted.*

*You must push firmly enough to overcome a slight resistance as pins are seated inside the card.*

*The memory card can be safely inserted or removed with the Test Set's power on or off.*



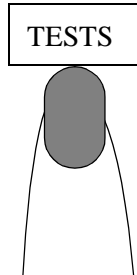
**HP 8924C/E**



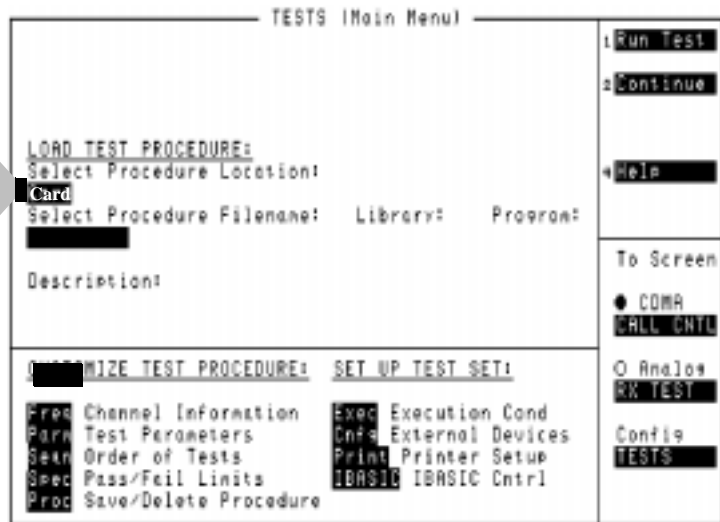
**HP E8285A**

5. Select the TESTS (Main Menu) screen.

a. Press the TESTS key.



The TESTS (Main Menu) screen should be displayed, and the cursor should be positioned in front of the **Select Procedure Location:** field.



## Section II. Loading and Running a Test Procedure

### 1. Load DIGTL\_CP.

- a. Press the knob to select the **Select Procedure Location:** field.

*The Select Procedure Location: field should be highlighted (brighter intensity), and the cursor should be displayed in the list of Choices.*

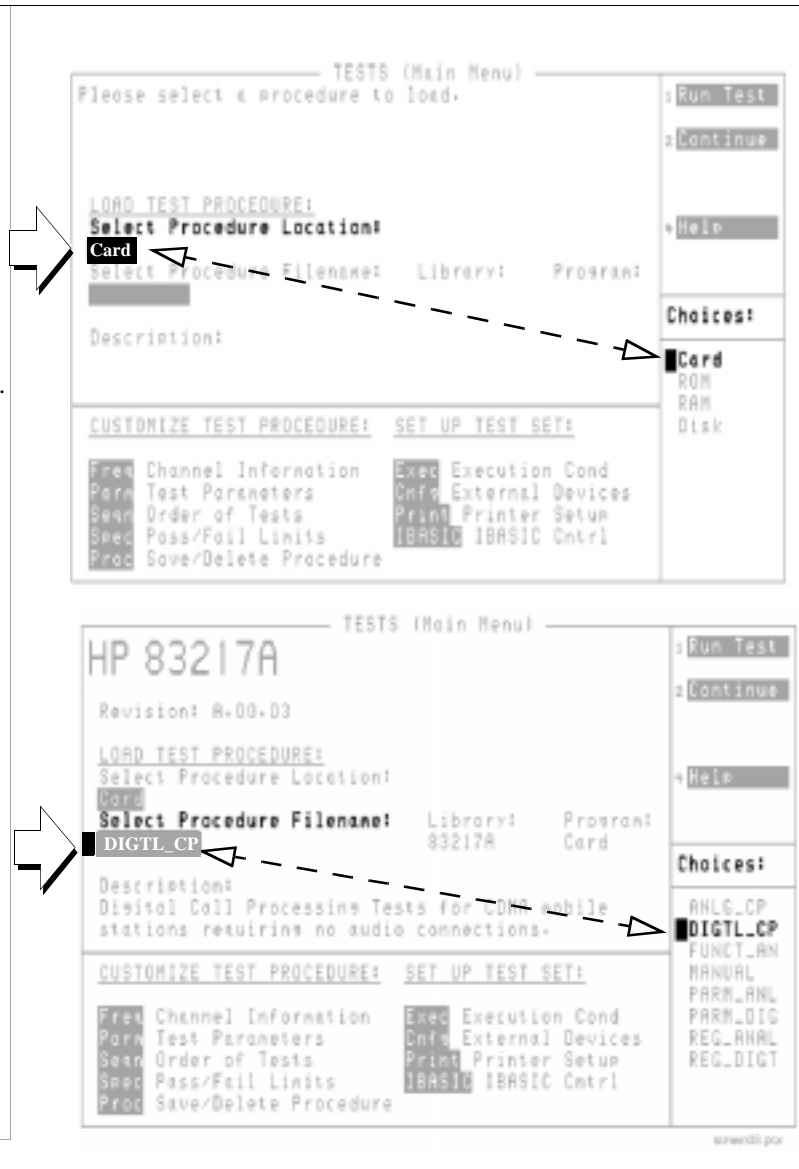
- b. In the **Choices:** menu, select **Card**.

*Card should be displayed in the Select Procedure Location: field.*

- c. Select the **Select Procedure Filename:** field.

- d. In the **Choices:** menu, select **DIGTL\_CP**.

*"DIGTL\_CP" should be displayed in the Select Procedure Filename: field.*



**2. Enter the mobile station’s primary CDMA channel number.**

- a. Select the **Channel Information** field.

The TESTS (Channel Information) screen should be displayed.

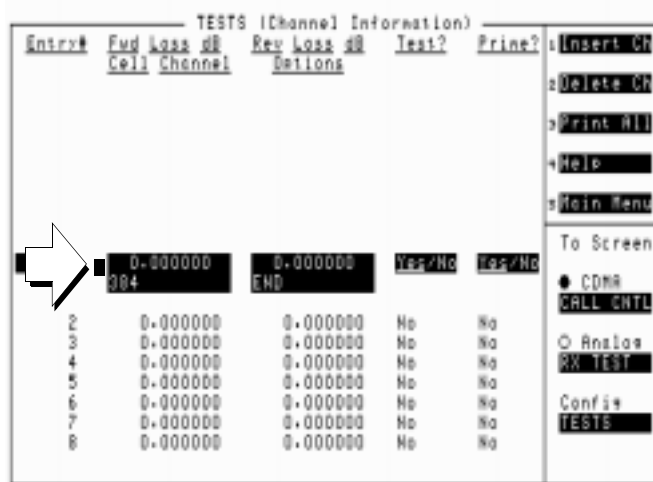
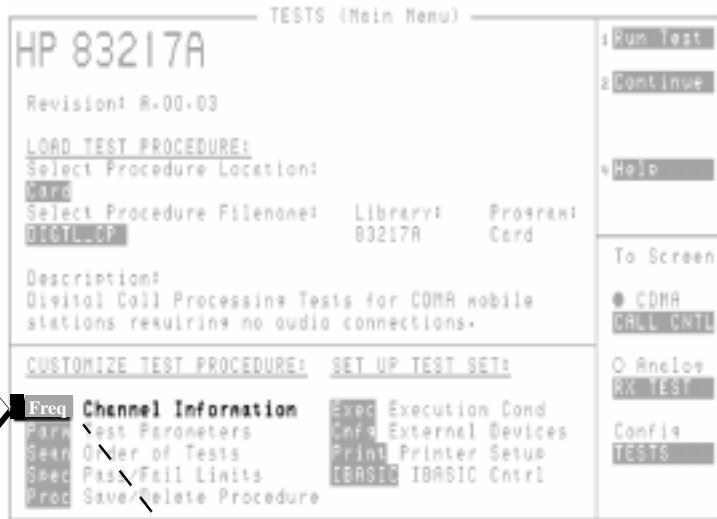
If the channel number in the “Cell Channel” field is correct for the mobile station you are using, you may skip steps c and d.

- c. Position the cursor at the **Cell Channel** field and select it.
- d. Use the Test Set’s DATA keys to enter the mobile station’s primary CDMA channel number. Press the knob to enter the number.

Entry 1, 384, is the primary CDMA channel number for serving system B in the EIA/TIA IS-95A standard.

Entry 2, 525P, is a PCS band channel number. Refer to the HP 83217A User’s Guide for other letter codes used to designate a channel standard.

The software will always establish a call (see tests CPD Page and CPD Origination) using the first channel in the “Cell Channel” field.



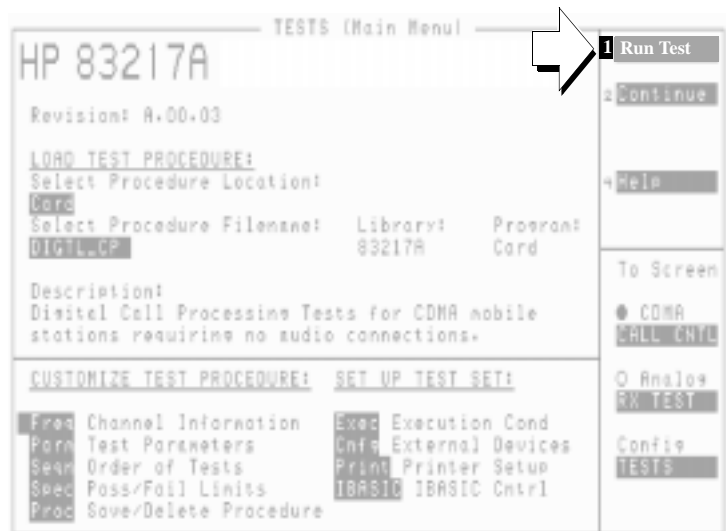
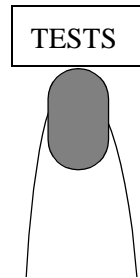
### 3. Run the test procedure.

- a. Press the TESTS key to return to the TESTS (Main Menu).

*The TESTS (Main Menu) screen should be displayed.*

- b. If there is a “1” displayed next to the **Run Test** field, press the K1 key on the Test Set’s front panel. Otherwise, use the cursor-control knob to select the **Run Test** field.

Wait until the Test Set beeps to perform the next step. The Test Set may prompt you to press the K1 key, labeled “Yes” to continue.



#### 4. Perform the Channel Power measurement calibration.

---

**NOTE:** The software performs a Channel Power measurement calibration the first time a test procedure is run after the Test Set's power has been turned off. The software will not repeat this calibration during subsequent testing, unless the 24-hour channel Power Calibration measurement timer expires.

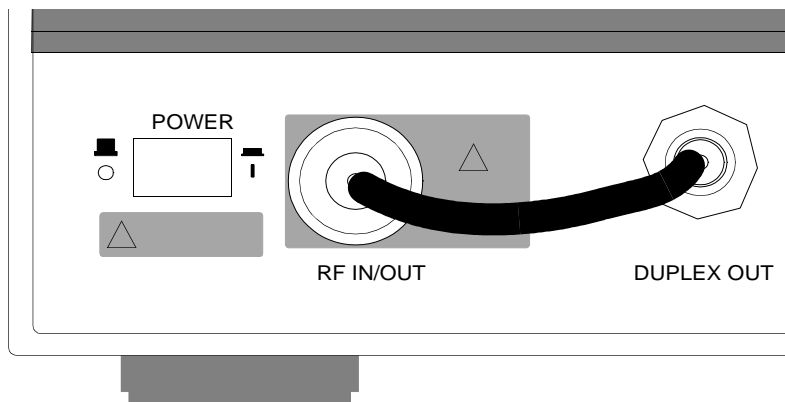
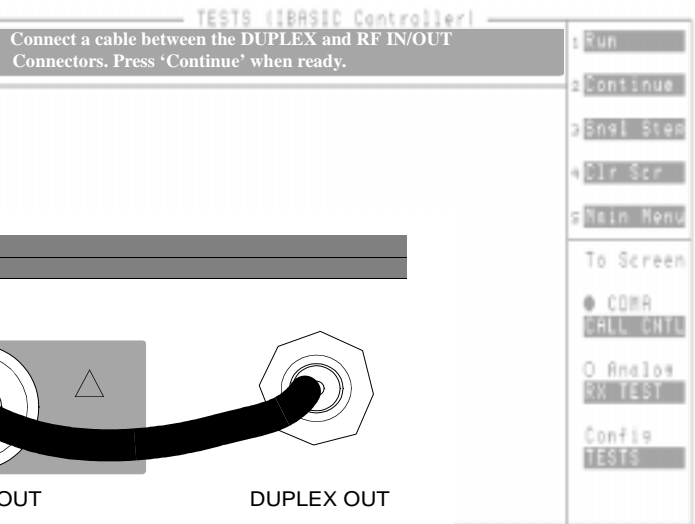
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**NOTE:** Newer versions of software provide a prompt to allow you to skip Channel Power measurement calibration if desired.

---



- a. If this message is displayed, connect a cable between the DUPLEX and RF IN/OUT connectors. **It is not necessary to connect this cable if the message is not displayed.**



- b. Select the **Continue** field.

Wait until the Test Set beeps, indicating that the calibration process has completed, then perform Step 5 on the following page. (Calibration will take about 1 minute).

*When the calibration process has completed, the Test Set will begin transmitting a CDMA pilot signal at a power level of -50 dBm/1.23 MHz bandwidth.*

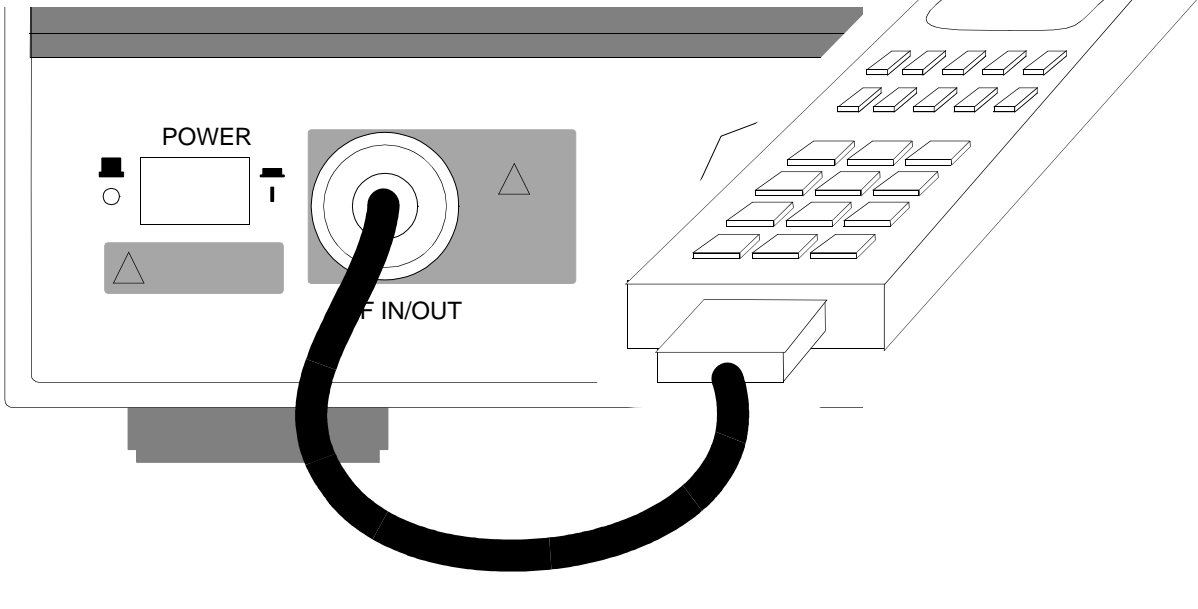
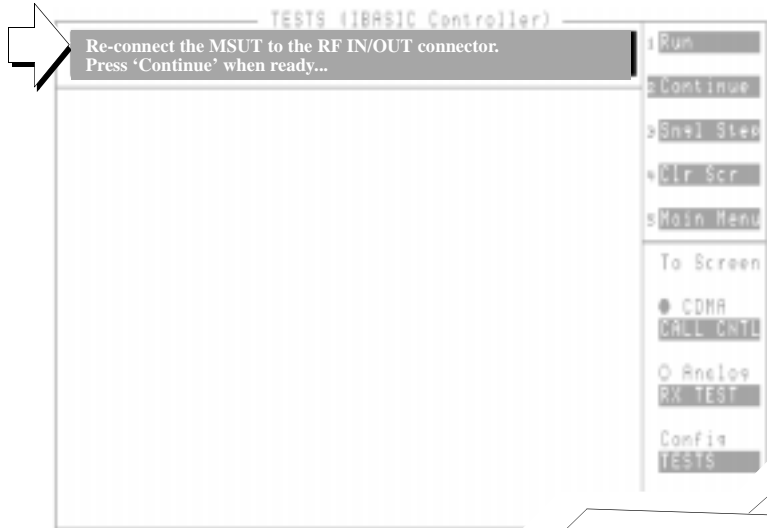


### 5. Connect the mobile station to the Test Set.

- a. Connect the mobile station's (MSUT's) RF connector to the Test Set's RF IN/OUT connector.

**DO NOT PRESS CONTINUE YET!**

*The mobile station must find service before you select 'Continue'. Follow steps 6 and 7 to cause the mobile station to find service.*

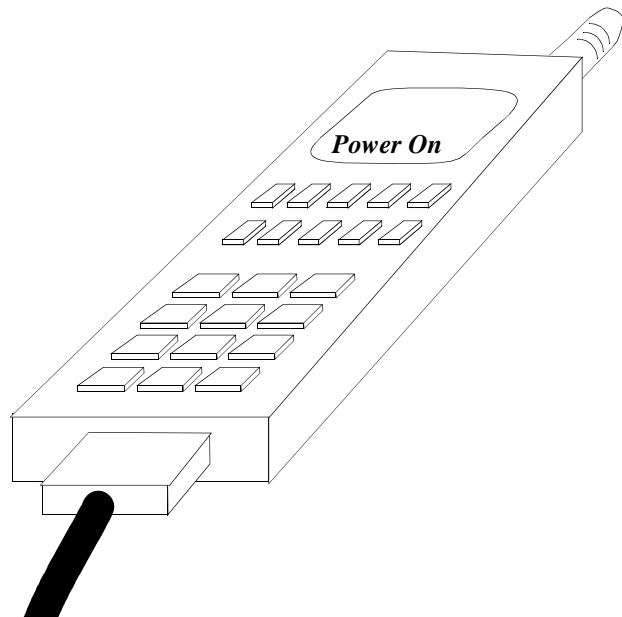


## 6. Turn on the mobile station.

- a. Turn the mobile station's power on. If power is already on, turn it off and then turn it on again.

*For battery powered mobile stations, simply press the Power key or On/Off key.*

*For mobile stations using a dc power supply, adjust the voltage and current to the levels recommended by the mobile station manufacturer, then connect dc power to the mobile station.*

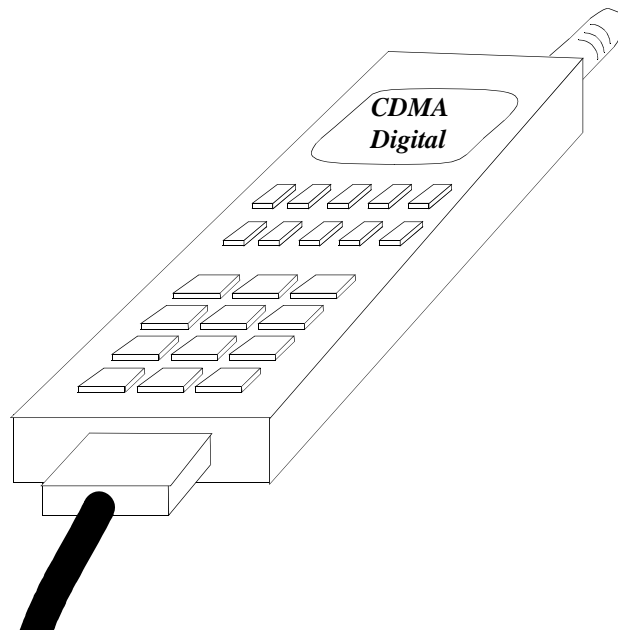


**7. Verify that the mobile station has found CDMA service.**

- a. Check the mobile station's display to determine if it has found CDMA service. Do not proceed with step 8 until the mobile station has found CDMA service.

*Each manufacturer's mobile station has a different way of displaying that the mobile station has found CDMA service. Usually, CDMA service will be indicated by a "D" or the word "DIGITAL" after power-up.*

*If the mobile station does not find CDMA service, verify that the Mobile Station is programmed to operate on the CDMA channel number you entered in the cell channel number field.*

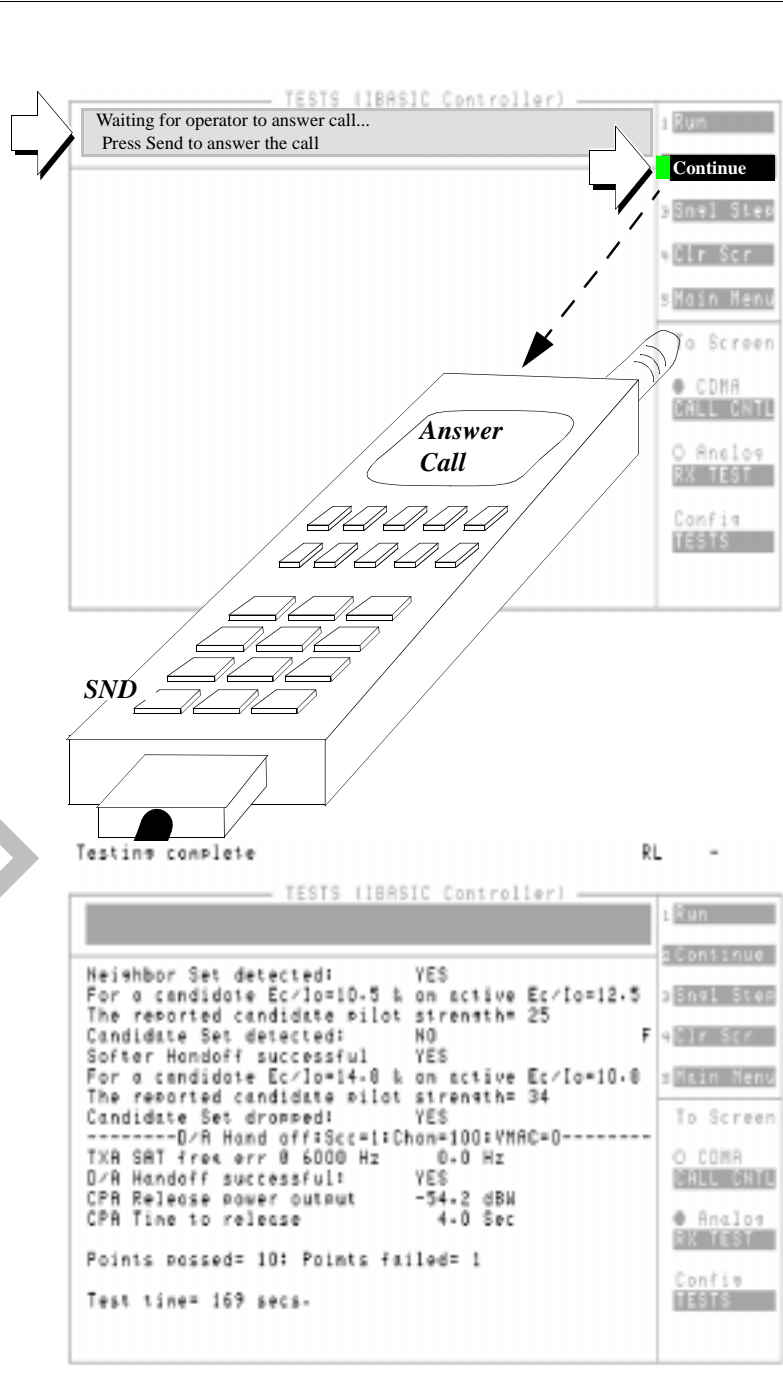


**8. Continue the test procedure.**

- a. Select the **Continue** field now. The test procedure will begin by registering the mobile station, then will display this message.
- b. When the Test Set beeps the first time, press the SEND key on the mobile station's handset.
- c. Proceed through testing by following the directions on the display each time the Test Set beeps.

*This test procedure will take about 3 minutes to complete.*

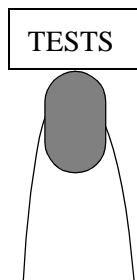
When the test procedure is complete, the message "Testing complete" will be displayed.



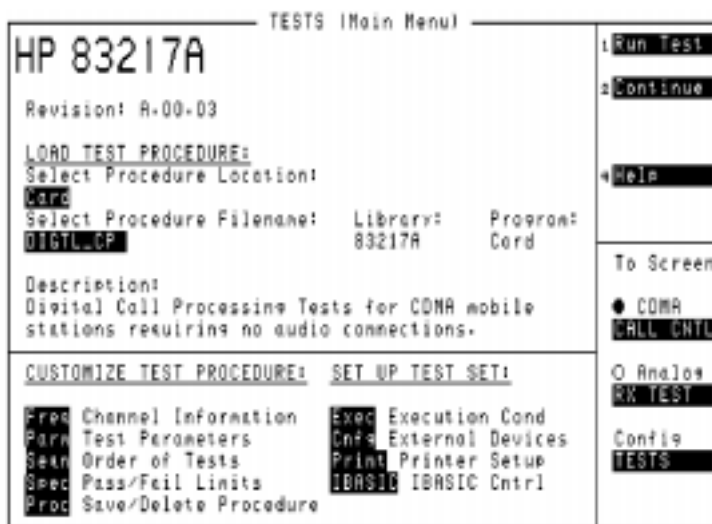
## Section III. Modifying the Order of Tests

### 1. Display the TESTS (Main Menu) screen.

a. Press the TESTS key.



*The TESTS (Main Menu) screen should be displayed.*



**2. Access the test procedure's list of tests.**

a. Select the **Order of Tests** field.

*The TESTS (Order of Tests) screen should be displayed.*

*Notice that the highlighted Step# has a Test Name (for example, "Step# 1...TEST\_30") assigned to it.*

*Under the Test Name is a Description (for example, "CPD Registration").*

HP 83217A TESTS (Main Menu)

Revision: A-00-03

LOAD TEST PROCEDURE:  
 Select Procedure Location:  
 Card

Select Procedure Filename: Library: Program:  
 DIGTL\_CP 83217A Card

Description:  
 Digital Call Processing Tests for CDMA mobile stations requiring no audio connections.

CUSTOMIZE TEST PROCEDURE: SET UP TEST SET:

Free Channel Information Exec Execution Cond  
 Param Test Parameters Conf External Devices  
 Seqn **Order of Tests** Print Printer Setup  
 Jtest Pass/Fail Limits IBASIC IBASIC Cntrl  
 Proc Save/Delete Procedure

1 Run Test  
 2 Continue  
 4 Help

To Screen  
 COMRA  
 CALL CNTL  
 O Analog  
 RX TEST  
 Confis  
 TESTS

TESTS (Order of Tests)

Step#	Test Name	Description	All Chans?	Yes/No
1	TEST_30	CPD Registration		
2	CPD Pass		No	
3	CPD Origination		No	
4	CPD CDMA Voice Quality		No	
5	CPD Softer Handoff		No	
6	CPD Digital to Analog Handoff		No	
7	CPR Release		No	

1 Insert Sta  
 2 Continue  
 3 Print All  
 4 Help  
 5 Main Menu

To Screen  
 COMRA  
 CALL CNTL  
 O Analog  
 RX TEST  
 Confis  
 TESTS

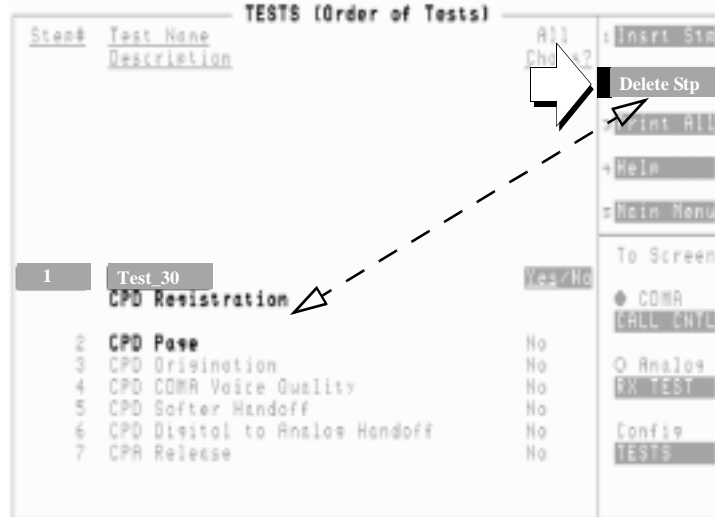
**3. Delete tests.**

- a. Select the **Delet Stp** field to delete **Step# 1, CPD Registration.**

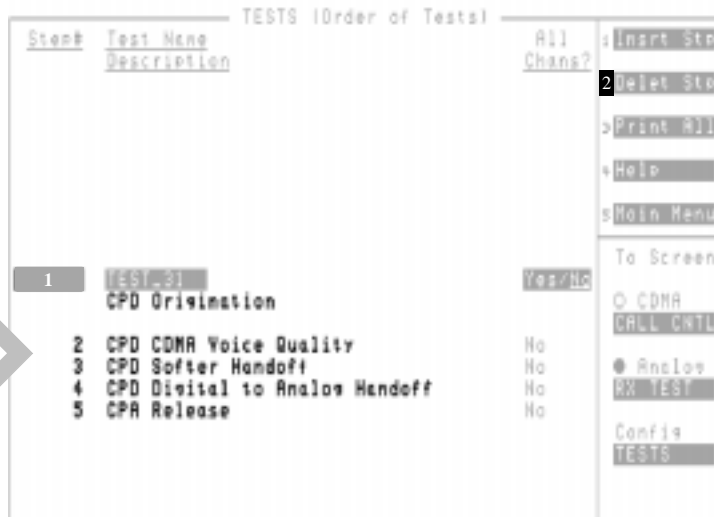
*Step#1 should now be assigned to CPD Page.*

*Refer to the HP 832127A Reference Guide for Test descriptions.*

- b. Select **Delet Stp** again to delete **Step# 1, CPD Page.**



Now the lists of tests should look like this.





c. Select the **Step#** field.



Step#	Test Name Description	All Chans?	
1	TEST_31 CPD Origination		Yes/No
2	CPD CDMA Voice Quality	No	
3	CPD Softer Handoff	No	
4	CPD Digital to Analog Handoff	No	
5	CRA Release	No	

d. Rotate the cursor control knob until Step#  
**3** is highlighted, then press the knob.

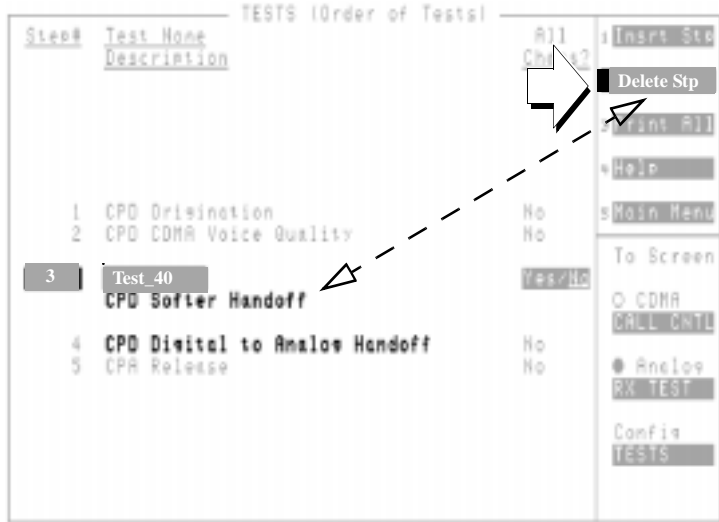


Now the Step# field is not highlighted.

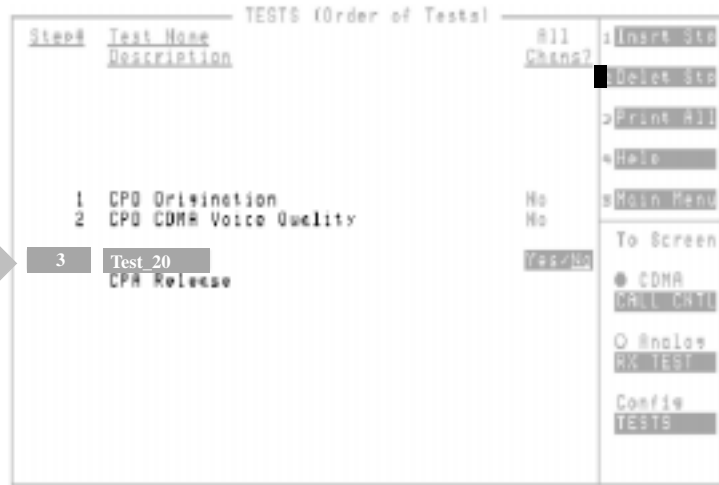
Step#	Test Name Description	All Chans?	
1	CPD Origination	No	
2	CPD CDMA Voice Quality	No	
3	Test_40 CPD Softer Handoff		Yes/No
4	CPD Digital to Analog Handoff	No	
5	CRA Release	No	

Chapter 1, HP 83217A Introduction to Operation  
 Section III. Modifying the Order of Tests

- e. Select the **Delet Stp** field to delete **Step# 3**, the **CPD Softer Handoff** test.
- f. Select **Delet Stp** again to delete the new **Step# 3**, which is the **CPD Digital to Analog Handoff** test.



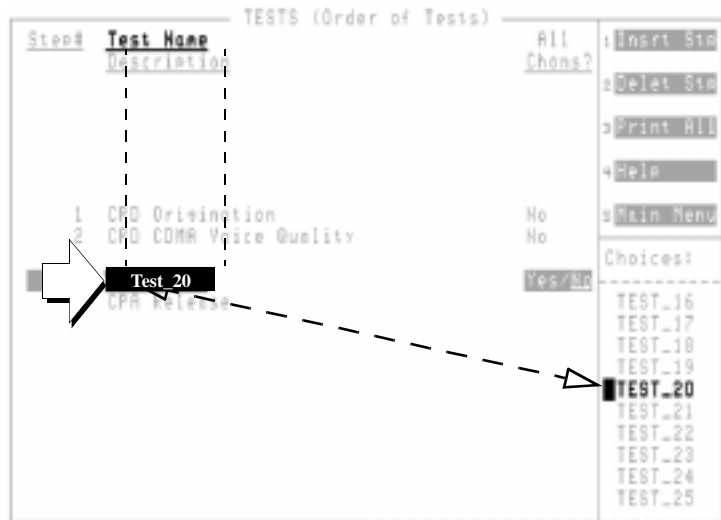
Now the lists of tests should look like this.



#### 4. Replace a test.

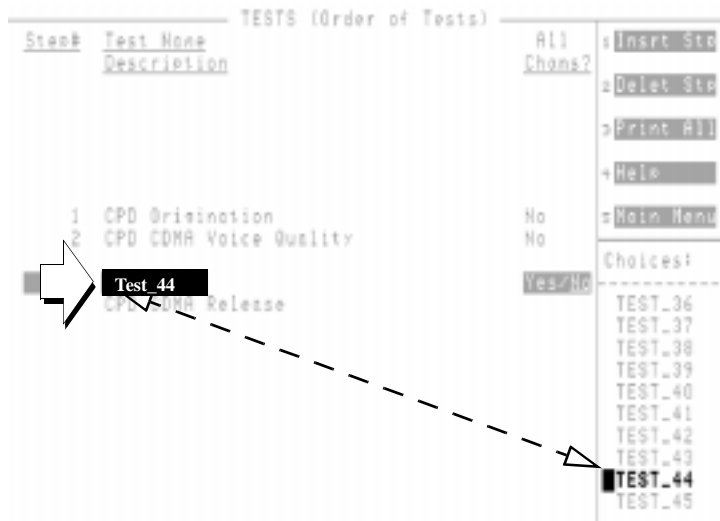
a. Select the **Test Name:** field.

*The Test Name: field should be highlighted, and the cursor should be located in the list of Choices.*



b. In the **Choices:** menu, select **TEST\_44**.

*Test\_44 should be displayed in the Test Name field.*



Chapter 1, HP 83217A Introduction to Operation  
Section III. Modifying the Order of Tests

Now the list of tests should look like this.

TESTS (Order of Tests)		
<u>Step#</u>	<u>Test Name</u> <u>Description</u>	<u>All</u> <u>Chans?</u>
1	CPD Orivination	No
2	CPD CDMA Voice Quality	No
3	TEST_44 CPD CDMA Release	Yes/No
		No

Options:

- 1) Delete Step
- 2) Print All
- 3) Help
- 4) Main Menu

To Screen

- 0 CDMA
- 1 CALL CNTL
- 2 Analog
- 3 RX TEST

Config

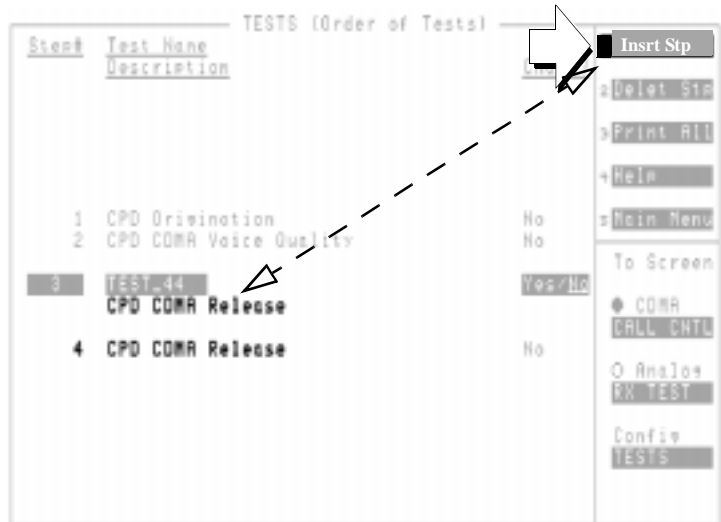
- TESTS

**5. Add a test.**

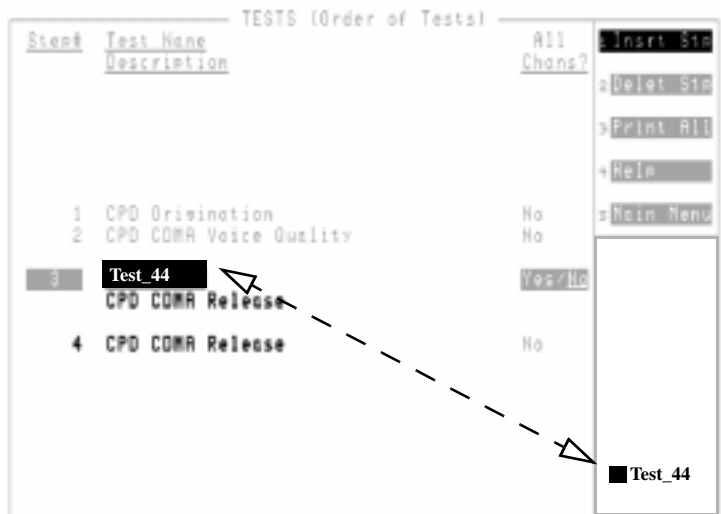
a. Select the **Insrt Stp** field.

*Notice that there are two  
 "CPD CDMA Release" tests.*

*The two "CPD CDMA Release" tests  
 should be assigned Step# 3 and Step# 4.*

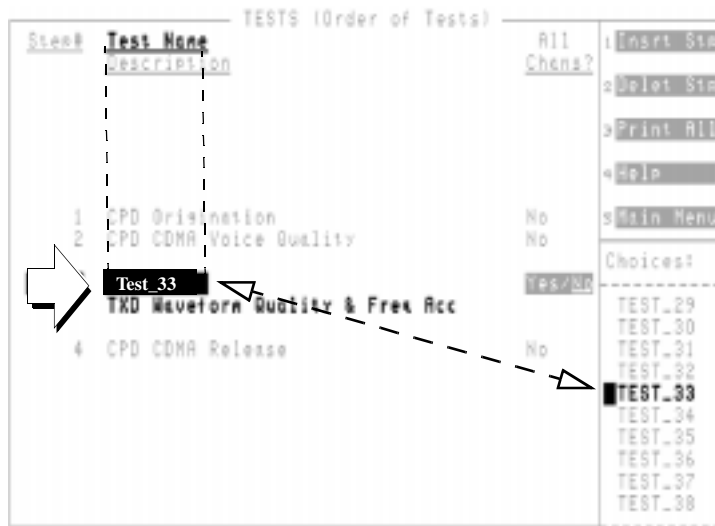


b. Select the **Test Name** field.

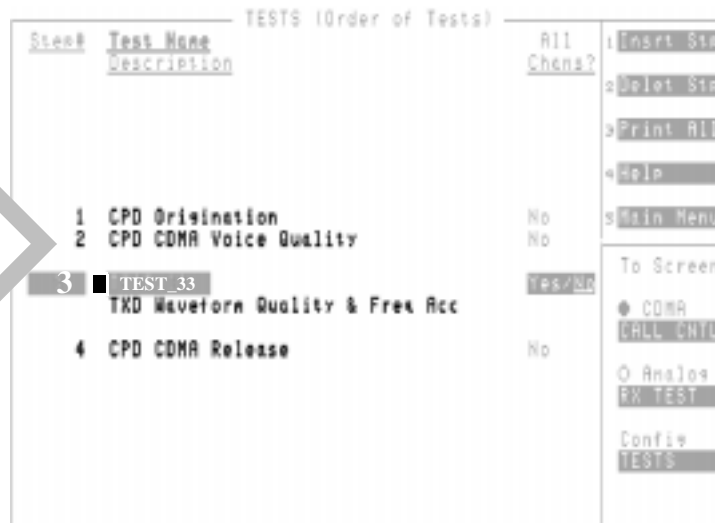


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 Section III. Modifying the Order of Tests

c. Select **TEST\_33** in the **Choices:** menu.

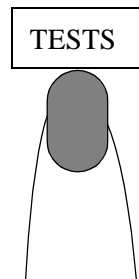


Now the list of tests should look like this.

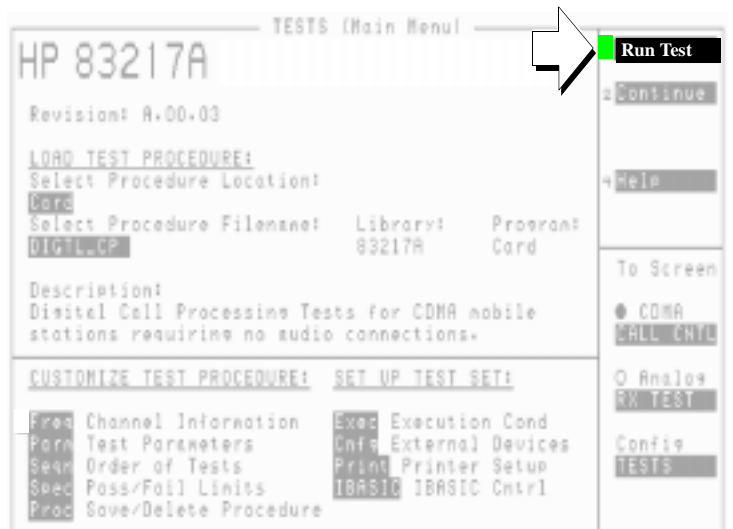


**6. Run the new test procedure.**

a. Press the TESTS key to return to the TESTS (Main Menu).



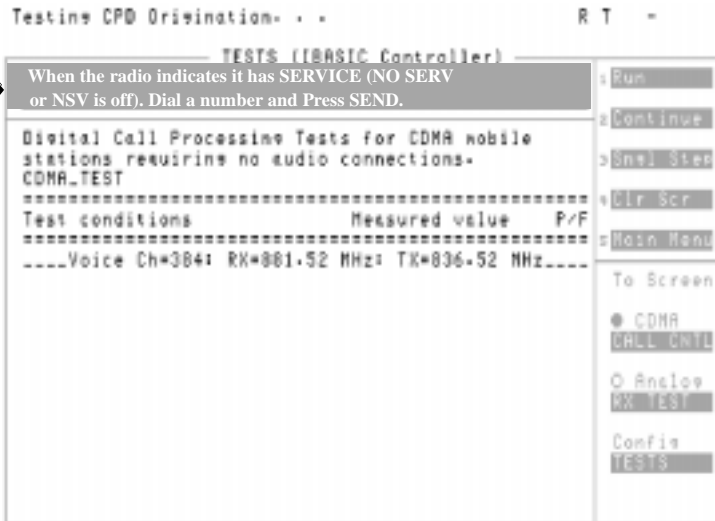
b. Select the **Run Test** field.



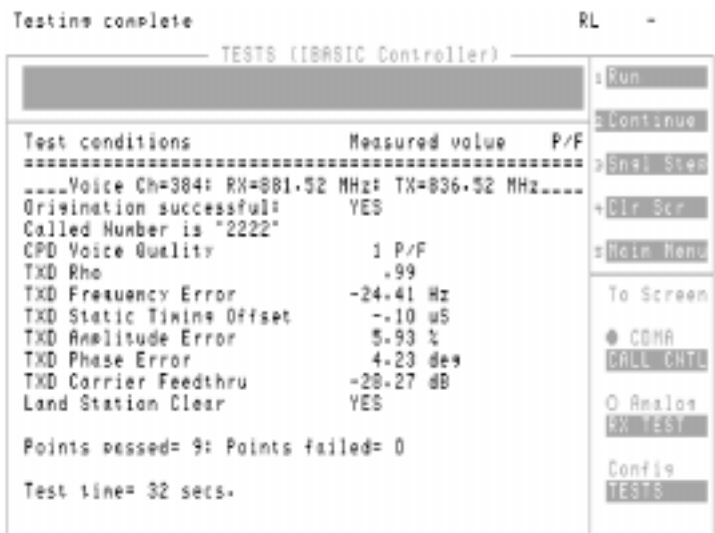
Chapter 1, HP 83217A Introduction to Operation  
 Section III. Modifying the Order of Tests

c. Follow the directions that appear on the Test Set.

*The test procedure should begin with CPD Origination.*



When testing is complete, the message "Testing complete" will be displayed.





## Section IV. Modifying a Parameter and a Specification

### 1. Display the TESTS (Main Menu).

a. Press the TESTS key.

TESTS



*The TESTS (Main Menu) screen should be displayed.*

```
HP 83217A
Revision: A-00-03
LOAD TEST PROCEDURE:
Select Procedure Location:
Card
Select Procedure Filename:  Library:  Program:
DIGTLCP                    83217A   Card
Description:
Digital Call Processing Tests for CDMA mobile
stations requiring no audio connections.
CUSTOMIZE TEST PROCEDURE:  SET UP TEST SET:
Freq Channel Information   Exec Execution Cond
Param Test Parameters     Cnfg External Devices
Seqn Order of Tests       Print Printer Setup
Spec Pass/Fail Limits    IBASIC IBASIC Cntrl
Proc Save/Delete Procedure
```

1 Run Test
2 Continue
4 Help
To Screen
● COMA
CALL CNTL
0 Analog
RX TEST
Config
TESTS

**2. Modify a parameter.**

a. Select the **Test Parameters** field.

*The TESTS (Test Parameters) screen should be displayed, and the cursor should be positioned at the Parm# field.*

b. Select the **Parm#** field.

c. Rotate the cursor control knob until Parm# **10** is displayed.

d. Press the knob.

*Now the Parm# field is not highlighted.*

The screenshot shows the HP 83217A TESTS (Main Menu) screen. The top section displays 'HP 83217A' and 'Revision: A-00-03'. Below this, the 'LOAD TEST PROCEDURE:' section shows 'Select Procedure Location: Card' and 'Select Procedure Filename: 016TLUCF'. The 'Description:' section reads 'Digital Call Processing Tests for CDMA mobile stations requiring no audio connections.' The 'CUSTOMIZE TEST PROCEDURE:' section lists 'Parm Test Parameters', 'Parm Order of Tests', 'Parm Print/Fail Limits', and 'Proc Save/Delete Procedure'. The 'SET UP TEST SET:' section lists 'Exec Execution Cond', 'Cnfg External Devices', 'Print Printer Setup', and 'IBASIC IBASIC Cntrl'. The right side of the screen has buttons for 'Run Test', 'Continue', 'Help', 'To Screen', 'CDMA CALL CNTL', 'Analog RX TEST', 'Config TESTS', and 'Main Menu'.

The bottom section shows the 'TESTS (Test Parameters)' screen. It has a table with columns 'Parm#', 'Description', 'Value', and 'Units'. The table lists parameters 1 through 17. Parameter 10, 'CPD Echo Delay [0, 2 cr 5]', is highlighted with a cursor. The value is '0.000000' and the unit is 'Seconds'. The right side of the screen has buttons for 'Print All', 'Help', 'Main Menu', 'To Screen', 'CDMA CALL CNTL', 'Analog RX TEST', 'Config TESTS', and 'Main Menu'.

d. Position the cursor at the **Value** field.

TESTS (Test Parameters)		
Par#	Description	Units
2	CPA DSAT Vector [0 thru 6]	
3	CPA Enter Ph# [0=If Needed, 1=Always, Here]	
4	CPA MIN Fron? [0=RECC, 1=All Os, 2=Phone #]	
5	CPA Pri RECC RVC Data [0=no 1=yes 2=fail]	
6	CPA SAT Tone	
7	CPA SID Number	
8	CPD Anlos Channel for D/A Handoff	
9	CPD BID Number	
	<b>CPD Echo Delay [0, 2 or 5]</b>	<b>Seconds</b>
	<b>0.000000</b>	
11	CPD MID Number	
12	CPD SID Number	
13	CPD Spectrum Averages [10, 20, 50, 100]	
14	RC Compandor is Always On [0=no 1=yes]	
15	RT External Path Loss	
16	RT High Supply Voltage	
17	RT Low Supply Voltage	

e. Use the Test Set's DATA keys to enter a value of **5.0**. Press the knob or the ENTER key to enter the number.

TESTS (Test Parameters)		
Par#	Description	Units
2	CPA DSAT Vector [0 thru 6]	
3	CPA Enter Ph# [0=If Needed, 1=Always, Here]	
4	CPA MIN Fron? [0=RECC, 1=All Os, 2=Phone #]	
5	CPA Pri RECC RVC Data [0=no 1=yes 2=fail]	
6	CPA SAT Tone	
7	CPA SID Number	
8	CPD Anlos Channel for D/A Handoff	
9	CPD BID Number	
	<b>CPD Echo Delay [0, 2 or 5]</b>	<b>Seconds</b>
	<b>5.000000</b>	
11	CPD MID Number	
12	CPD SID Number	
13	CPD Spectrum Averages [10, 20, 50, 100]	
14	RC Compandor is Always On [0=no 1=yes]	
15	RT External Path Loss	
16	RT High Supply Voltage	
17	RT Low Supply Voltage	

Chapter 1, HP 83217A Introduction to Operation  
 Section IV. Modifying a Parameter and a Specification

The new value of CPD Echo Delay should be 5.000000, and the Value field should not be highlighted.

TESTS (Test Parameters)			
Par#	Description	Value	Units
2	CPR DSAT Vector [0 thru 6]		
3	CPR Enter Ph# [0=If Needed; 1=Always; Here]		
4	CPR MIN Freq? [0=RECC; 1=All Os; 2=Phone #]		
5	CPR Freq RECC RVC Data [0=no 1=yes 2=fail]		
6	CPR SAT Tone		
7	CPR SID Number		
8	CPD Anclos Channel for D/A Handoff		
9	CPD SID Number		
11	<b>CPD Echo Delay [0, 2 or 5]</b>	<b>5.000000</b>	<b>Seconds</b>
11	CPD NID Number		
12	CPD SID Number		
13	CPD Spectrum Averages [10;20;50;100]		
14	RC Compandor is Always On [0=no 1=yes]		
15	RT External Path Loss		
16	RT High Supply Voltage		
17	RT Low Supply Voltage		

Print All

Help

Main Menu

---

To Screen

CDMA  
CALL CNTL

Anclos  
RX TEST

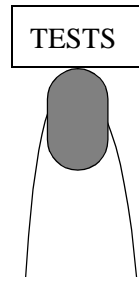
Config  
TESTS

36

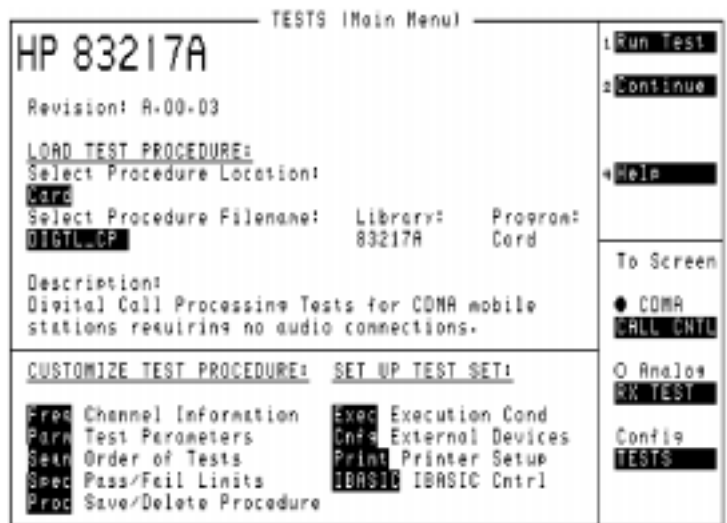
S:\HP83217A\GETSTART\BOOK\CHAPTERS\tutorial.doc

### 3. Display the TESTS (Main Menu).

a. Press the TESTS key.

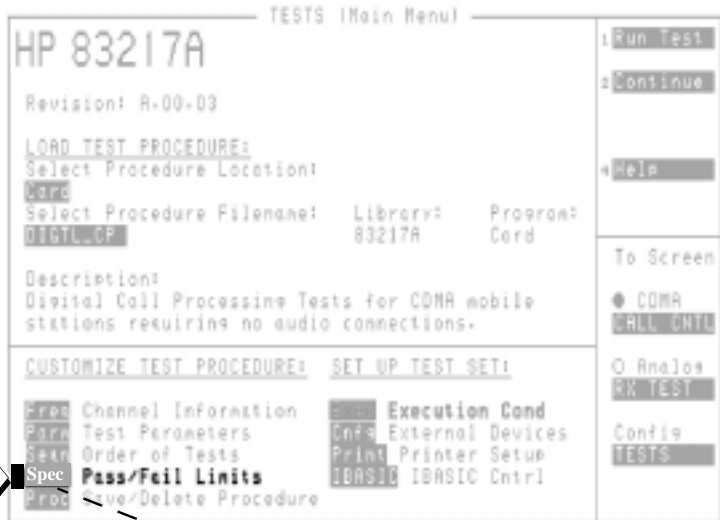


*The TESTS (Main Menu) screen should be displayed.*



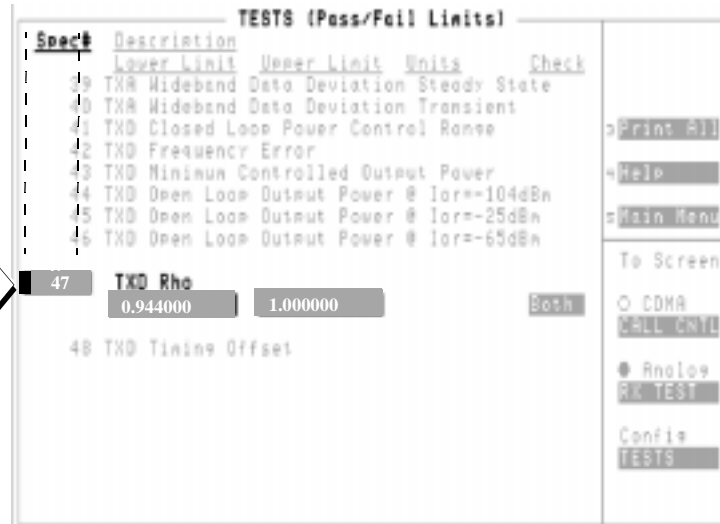
**4. Change a specification.**

a. Select the **Pass/Fail Limits** field.



*The TESTS (Pass/Fail Limits) screen should be displayed, and the cursor should be positioned at the Spec # field.*

b. Select the **Spec#** field.

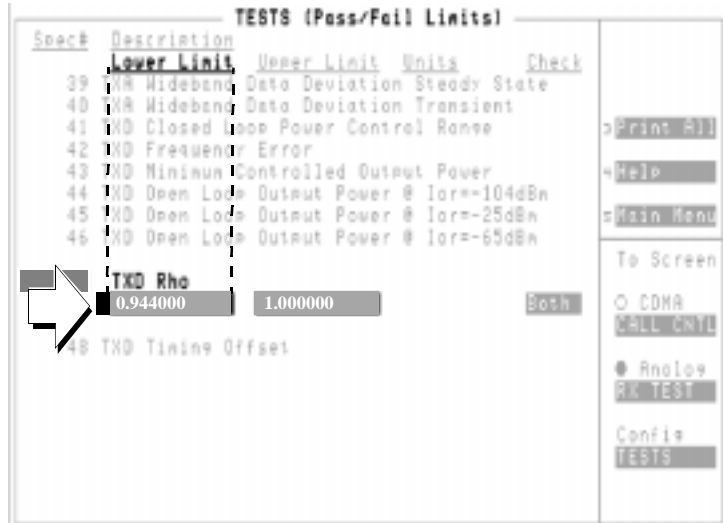


c. Rotate the cursor control knob to **47 (TXD Rho)**, (**46 (TXD Rho)** if you are using Option 004), in the **Spec#** field.

d. Press the knob

*Now the Spec# field should not be highlighted*

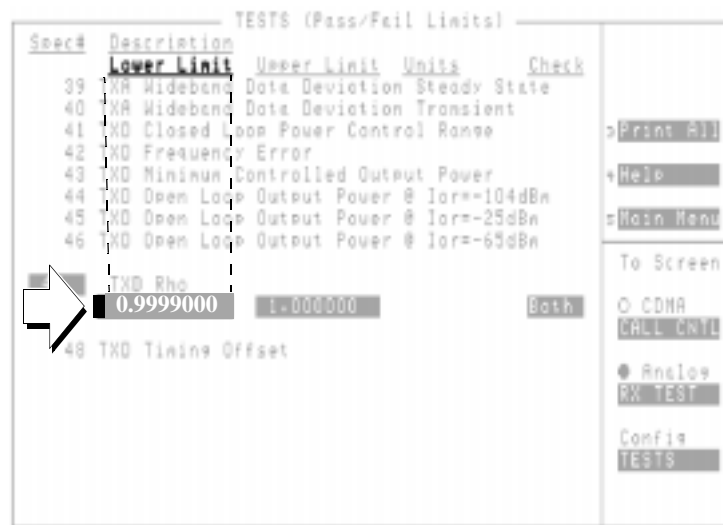
d. Position the cursor at the **Lower Limit** field.



e. Use the DATA keys to enter a value of **.999000**. Press the knob to enter.

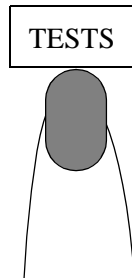
*This value was chosen intentionally to cause the TXD Rho test to fail.*

*The new value for TXD Rho Lower Limit should be .999000, and the Lower Limit field should not be highlighted.*

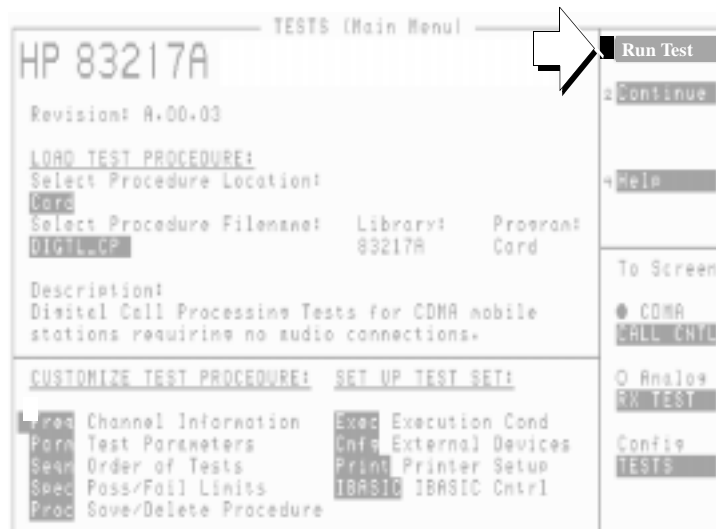


**5. Start the test procedure.**

a. Press the TESTS key to return to the TESTS (Main Menu).



b. Select the **Run Test** field.

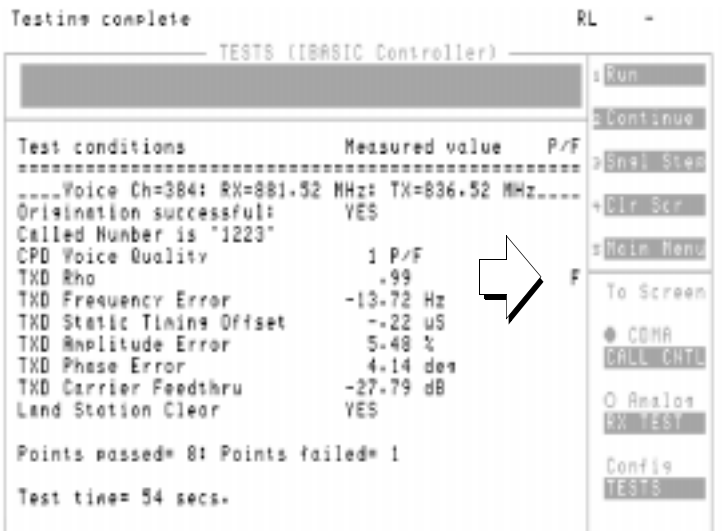
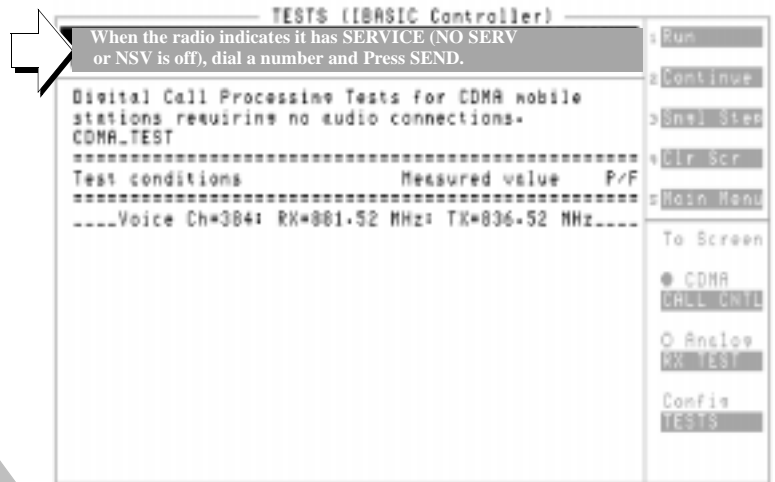




c. Follow the directions that appear on the Test Set.

When the software prompts you to speak into the phone, notice the longer (5 second) delay.

When the testing is complete, the message "Testing complete" will be displayed, and the TXD Rho test should have an "F" displayed in the P/F column



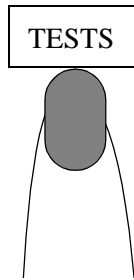
---

## Section V. Saving a Test Procedure on a Memory Card

### 1. Insert a PCMCIA SRAM card.

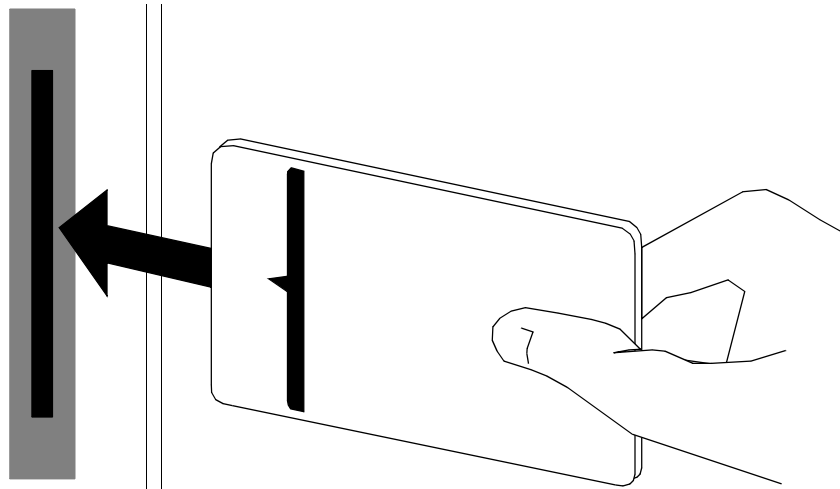
a. Press the TESTS key.

*The TESTS (Main Menu) screen should be displayed.*



b. Remove the HP 83217A PCMCIA card and insert a PCMCIA SRAM card.

*If your PCMCIA SRAM card is not initialized, follow the procedure for initializing the card in Step 2a.*



**2. Select “Card” as a test procedure location.**

a. Select the **Save/Delete Procedure** field.

*The TESTS (Save/Delete Procedure) screen should be displayed.*

*If your PCMCIA SRAM card is not initialized, select the Init Card (USER key K3) now and follow directions in the message displayed on the screen.*

b. Select the **Select Procedure Location:** field.

*The Select Procedure Location: field should be highlighted, and the cursor should be located in the list of choices.*

c. Select **Card**.

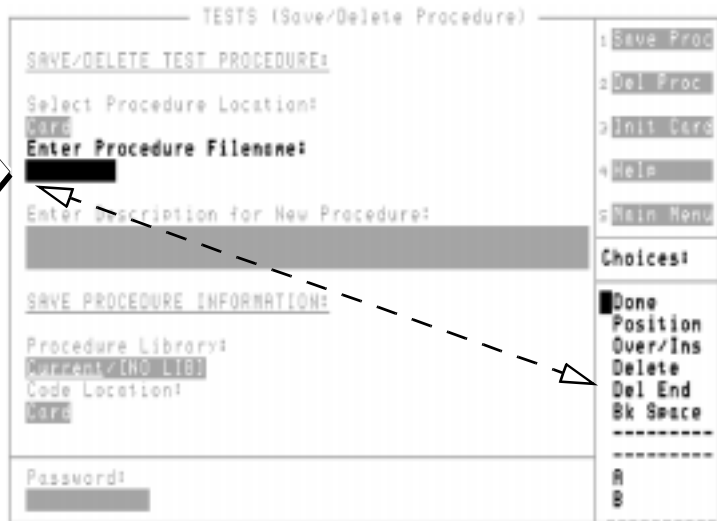
*“Card” should appear and the “Select Procedure Location:” field should not be highlighted.*

The image contains two screenshots of the HP 83217A test menu. The top screenshot, titled 'TESTS (Main Menu)', shows the 'Save/Delete Procedure' option highlighted. The bottom screenshot, titled 'TESTS (Save/Delete Procedure)', shows the 'Select Procedure Location:' field with 'Card' selected. Arrows point from the text instructions to the corresponding fields in the screenshots.

**3. Name the test procedure.**

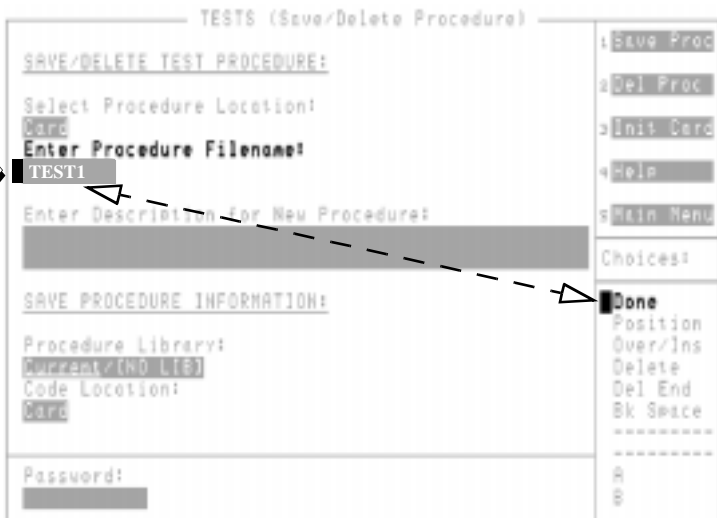
- a. Select the **Enter Procedure Filename:** field.

*The "Enter Procedure Filename:" field should be highlighted, and the cursor should be positioned in the list of choices.*



- b. Use the cursor control knob to enter each character of the filename you have chosen (8 characters maximum).

*As each character is entered, it will appear in the "Enter Procedure Filename:" field.*



- c. Select to **Done** enter the name of the procedure.

*The "Enter Procedure Filename:" field should not be highlighted now.*

#### 4. Save the test procedure.

a. Select the **Save Proc** field.

*“Procedure saved.” will be displayed when the test procedure has been saved to the memory card.*

*The test procedure you just saved can now be loaded and run on any Test Set that has HP 83217A software installed in it.*

Procedure saved.

TESTS (Save/Delete Procedure)

SAVE/DELETE TEST PROCEDURE:

Select Procedure Location!  
Card

Enter Procedure Filename:  
TEST1

Enter Description for New Procedure:  
[REDACTED]

SAVE PROCEDURE INFORMATION:

Procedure Library:  
Current (NO LIB)

Code Location:  
Card

Password:  
[REDACTED]

Save Proc  
Del Proc  
Init Card  
Help  
Main Menu

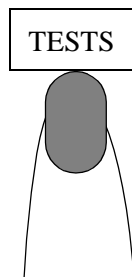
To Screen  
COMA  
CALL CNTL  
O Analog  
RX TEST  
Config  
TESTS

## Section VI. Modify the Test Execution Conditions

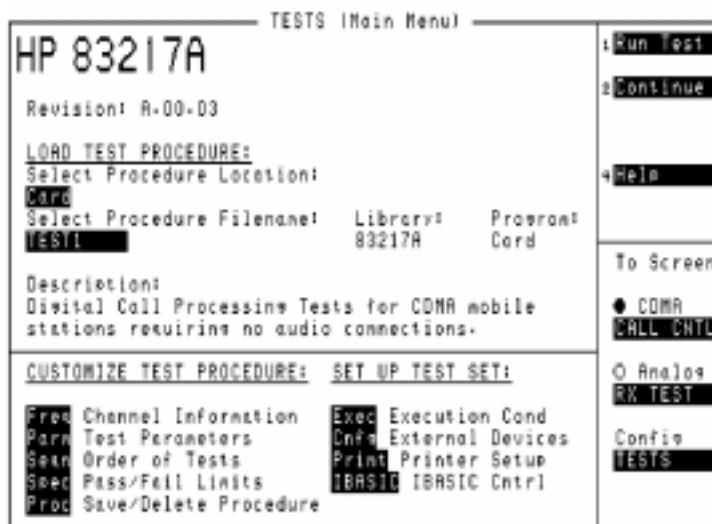
**NOTE:** Test Execution Conditions are not and can not be saved as part of a test procedure.

### 1. Display the TESTS (Main Menu).

a. Press the TESTS key.

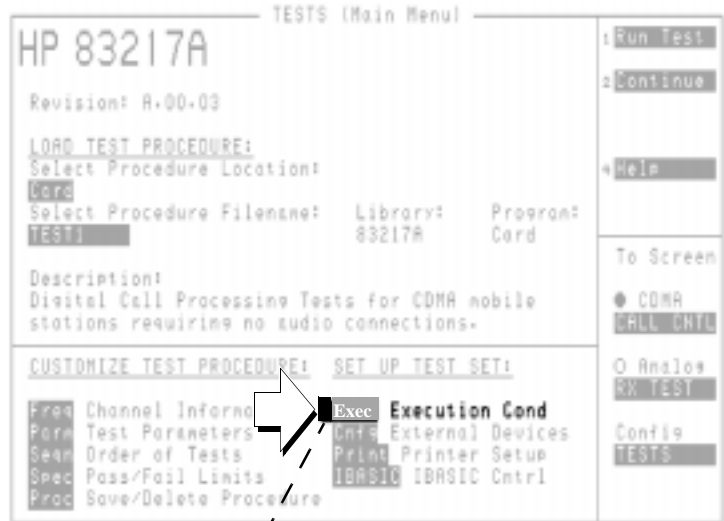


*The TESTS (Main Menu) screen should be displayed.*



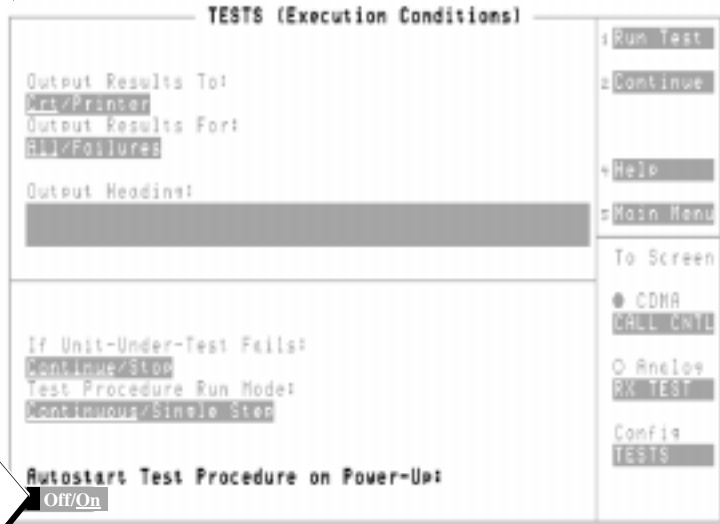
2. Select the autostart feature.

a. Select the **Execution Cond** field.



The TESTS (Execution Conditions) screen should now be displayed.

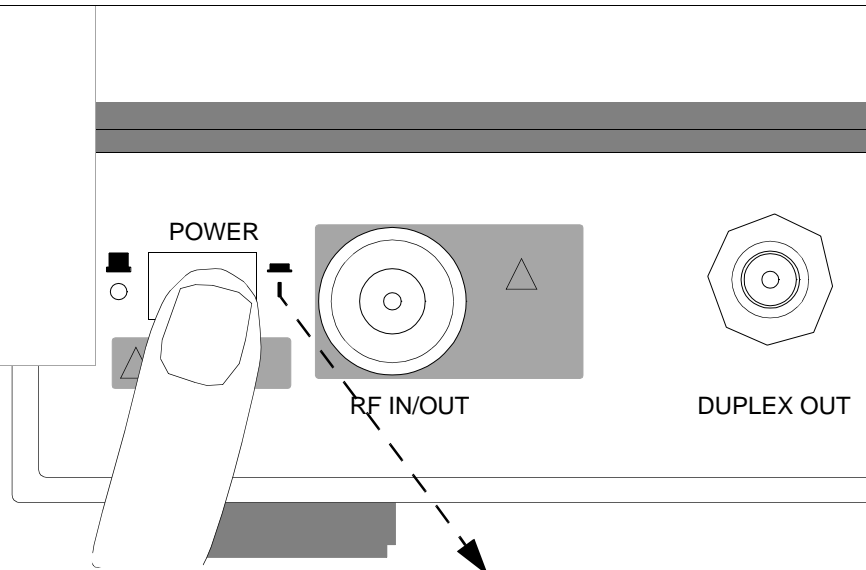
b. Position the cursor at the **Autostart Test Procedure on Power-Up** field and select **On**.



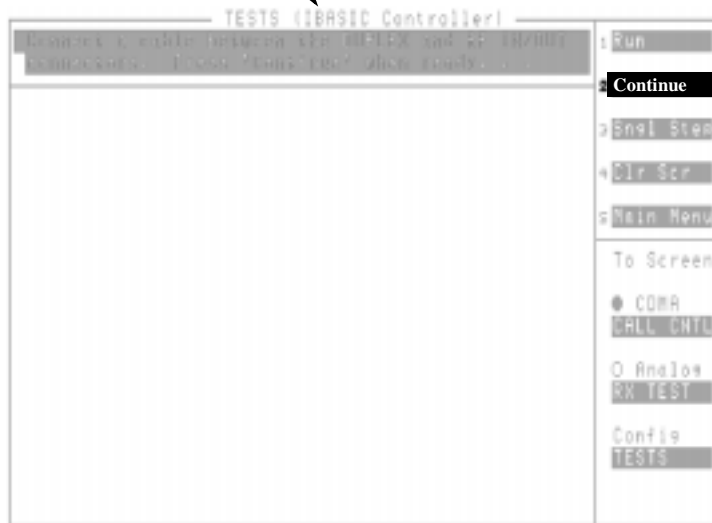
The word "On" should be underlined.

### 3. Autostart the test procedure.

- a. Disconnect the mobile station.
- b. Press the POWER key twice; once to turn off power, and once to turn power back on.



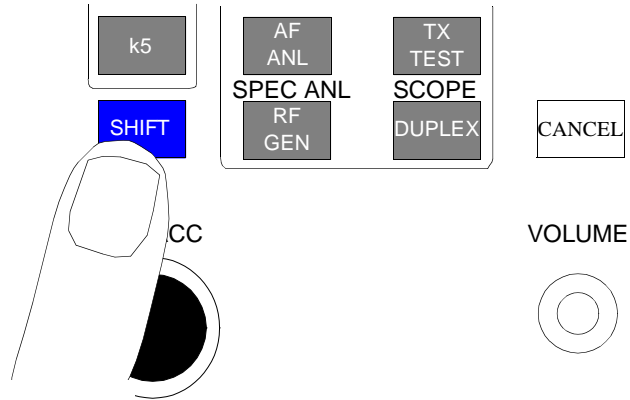
*After the power-up routine is finished, the test procedure you have been modifying will automatically load and run. Because the power was turned off, the procedure begins again with calibrating channel power.*



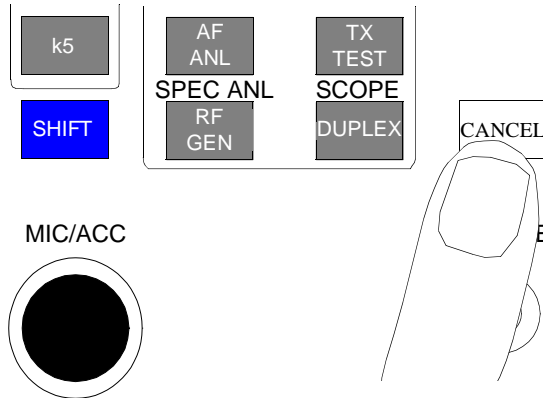


**4. Stop the test procedure and turn off Autostart.**

a. Press SHIFT key.



b. Press the CANCEL key.

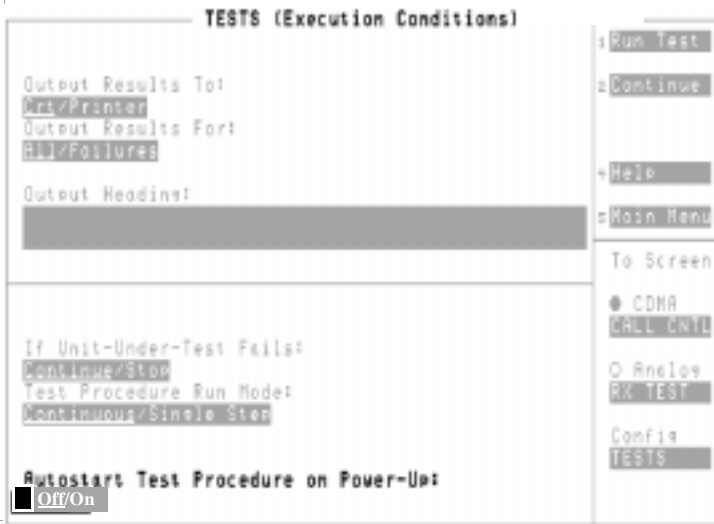


*The message "IBASIC Reset" will be displayed at the top of the screen.*

c. Press the TESTS key.

d. Select the **Execution Cond** field.

*The TESTS (Execution Conditions) screen should be displayed.*



e. Position the cursor at the **Autostart Test Procedure on Power-Up** field and select

*The word "Off" should be underlined.*

5. Change the test procedure to stop on test failures.

a. Press the TESTS key.

b. Position the cursor at the **Execution Cond** field and select it.  
*The TESTS (Execution Conditions) screen should be displayed.*

c. Position the cursor at the **If Unit-Under-Test-Fails:** field and select **Stop**.  
*The word "Stop" should be underlined.*

d. Select the **Run Test** field.

HP 83217A  
Revision: A-00-03  
LOAD TEST PROCEDURE:  
Select Procedure Location: Ccrr  
Select Procedure Filename: TEST1 Library: 83217A Program: Card  
Description:  
Digital Call Processing Tests for CDMA mobile stations requiring no audio connections-  
CUSTOMIZE TEST PROCEDURE: SET UP TEST SET:  
Freq Channel Informa Exec Execution Cond  
Param Test Parameters Cnfr External Devices  
Scan Order of Tests Print Printer Setup  
Spec Pass/Fail Limits IBASIC IBASIC Cntrl  
Proc Save/Delete Procedure  
TESTS (Execution Conditions)  
Output Results To: Crt/Printer  
Output Results For: All/Failures  
Output Heading:  
If Unit-Under-Test Fails:  
Continue/Stop  
Test Procedure Run Mode:  
Continuous/Single Step  
Autostart Test Procedure on Power-Up:  
Off/On  
Run Test  
Continue  
Help  
To Screen  
CDMA CALL CNTL  
Analog RX TEST  
Config TESTS  
Main Menu  
CDMA CALL CNTL  
Analog RX TEST  
Config TESTS

**6. Continue the Procedure.**

a. Follow the directions that appear on the Test Set.

*The procedure should now stop on the first failure encountered, TXD Rho.*



b. Select the **Continue** field.

When the test procedure is complete, the message "Testing complete" will be displayed.

