

# 54600A-08

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

SUPERSEDES: None

### HP 54600A Oscilloscope

#### Duplicate Service Notes:

54601A-08  
54602A-01

#### Key Down Power-Up

##### Situation:

Key down power-ups may be used for clearing module cal factors, trace memory and stored front panel setups.

Conditions may exist in hardware or firmware that cause an occasional lock-up condition of the keyboard and control knobs. No known conditions currently exist. However, if a lock-up should occur, a keydown power-up may clear the lock-up.

Numerous types of instrument lock-ups may be cleared by a key down power-up. Different types of Key down power-ups may be performed to clear different lock-up conditions. When a key down power-up is performed, the key or keys being suppressed must be held down until the default messages appear on screen to achieve the full effect of the key down power-up.

##### Solution/Action:

Perform a key/keys down power-up.

*Continued*

DATE: 08 January 1993

### ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:

## INFORMATION ONLY

AUTHOR:	ENTITY:	ADDITIONAL INFORMATION:
NCW	0800	

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List of different types of key down power-ups that may be performed.

### 1. Oscilloscope only

1. Suppress any instrument key and turn power on.  
 Message: Instrument defaults loaded.  
 An instrument will be cleared of all stored set-ups.
  
2. Suppress softkeys 5 & 6 from left side and turn power on.  
 Message: Vertical Cal Factors failed checksum test- Defaults loaded  
           Horizontal Cal Factors failed checksum test- Defaults loaded  
 Calibration should be done after this type of key down power up.

On system ROMs version 2.2 and earlier the above message will appear when the calibration RAM protect switch is in the Protected position. On ROMs version 2.3 and following the above message will appear when the calibration RAM protect switch is in the Unprotected position.

Erasing the NVRAM causes the vertical and horizontal cal factors to fail their checksum test and therefore the cal factors are defaulted. This also causes the scope to power up in its default configuration.

### 2. Oscilloscope with a module attached

1. Suppress any instrument key
 

Module 54650A - Message:	HP-IB Defaults Loaded
Module 54651A - Message:	RS-232 Defaults Loaded
Module 54652A - Message:	Parallel Defaults Loaded
Module 54655A - Message:	None (Instrument Defaults are Loaded)
Module 54656A - Message:	None (Instrument Defaults are Loaded)
Module 54657A - Message:	Module Defaults Loaded
Module 54658A - Message:	Module Defaults Loaded

### 3. Oscilloscope with a module attached

1. Suppress softkey 3 from left side and turn power on.
 

Module 54655A- Message:	Softkey 3 pressed at power up Defaulting Test Automation Module Sequences
Module 54656A- Message:	Softkey 3 pressed at power up Defaulting Test Automation Module Sequences