

E8257D-17B

# Modification Available Performance Enhancement Service Note

Supersedes:  
E8257D-17A

## E8257D Analog Signal Generator

Serial Numbers: ALL

Instrument failing self-test 704

### Parts Required:

P/N	Description	Qty.
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NONE

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### ADMINISTRATIVE INFORMATION

<input type="checkbox"/> Calibration Required	PRODUCT LINE: 15
<input checked="" type="checkbox"/> Calibration NOT Required	AUTHOR: SN

ADDITIONAL INFORMATION:

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**Situation:**

The self-test limits for A6 Frac-N have been updated to avoid possible faulty self-test failure 704. This applies for all instruments including units with Special Handling options HCC and HAR.

**Solution/Action:**

1. If you are experiencing self-test failure 704, verify the self-test limits by pressing: Utility > Instrument Information/Help Mode > Self-Test > View Test Info
2. Using the RPG or the up and down arrow keys, scroll to self-test 704. Press: Run Highlighted Test.
3. When the self-test has completed, press: View Details. The lower limits for the following tests should be:
  - a. 1-1.55 GHz lower = 0.5
  - b. 1.55-2.4 GHz; lower = 0.5
  - c. 2.4-3.2 GHz; lower = 0.5
4. If the self-test limits are correct, continue to troubleshoot the problem using the troubleshooting procedure.
5. If the self-test limits are incorrect, first verify that the instrument has firmware equal or higher than C.04.71. If yes, proceed to step (7). If not, update to the latest firmware.
6. If after upgrade firmware and the self-test still fail, proceed with the step (7).
7. Connect the instrument to LAN, then press: Utility > GPIB/RS-232 LAN > LAN Setup > LAN Config set  
to DHCP > Proceed with Reconfiguration > Confirm Change (Instrument will Reboot).
8. After the instrument had power cycle, press: Utility > GPIB/RS-232 LAN > LAN Setup and record down the IP address.
9. Open a browser window and type in the instrument IP address/update  
(<http://xxx.xxx.xxx.xxx/update> )
10. Then enter the following text into the 'Manual Calibration And Self-Test Update' box.

II "SYNTH", 14, 0.5

II "SYNTH", 15, 0.5

II "SYNTH", 16, 0.5

ky 11889

# System Update

**WARNING:** Do not use this page unless specifically instructed to do so by the Service Manual or a Service Note.

<b>Initialize Option 601 and 602 (LVDS - DIG BUS BB GEN)</b>	<input type="button" value="Execute"/>
<b>Restore Factory Setup (backed up before 601/602 update)</b>	<input type="button" value="Execute"/>
<b>Recover Self Test System Files</b>	<input type="button" value="Execute"/>
<b>Overwrite LICENSES.TXT</b>	<input type="button" value="Execute"/>
<b>YIG Pretune Calibration</b>	<input type="button" value="Execute"/>
<b>Update optional MECH ATTN</b> remove:33328-60001 Serial Number: <input type="text"/>	<input type="button" value="Execute"/>
<b>Update optional PULSE MODULATOR</b> remove:E8251-60064 Serial Number: <input type="text"/>	<input type="button" value="Execute"/>
<b>Manual Calibration And Self Test Update</b>	<input type="button" value="Execute"/>
<pre> 11 "SYNTH", 14, 0.5 11 "SYNTH", 15, 0.5 11 "SYNTH", 16, 0.5 ky 11889 </pre>	

- Press 'Execute' button next to the 'Manual Calibration And Self Test Update'.
- When the update is completed, another webpage will be displayed with the message 'Operation completed'. To finish, power cycle the instrument and verify the limits have been updated using steps 1-3 above.

## Revision History:

Date	Service Note Revision	Author	Reason for Change
21 August 2013	01	PY	Update to all affected Frac-N board for this self-test failure.
14 February 2017	02	SN	Update to include all affected Frac-N board for this self-test failure applies to all instruments including units with options HCC and HAR.