N5166B-03

Information Only Service Note

Supersedes:
None

N5166B X-Series CXG Vector Signal Generator

Serial Numbers: ALL

The Problem – A3 RF assembly boards showing Heater and Unlock errors

Parts Required:

P/N	Description	Qty.
NONE		

ADMINISTRATIVE INFORMATION

[[]] Calibration Required	PRODUCT LINE: 15
X Calibration NOT Required	AUTHOR: PY

ADDITIONAL INFORMATION:

KEYSIGHT TECHNOLOGIES

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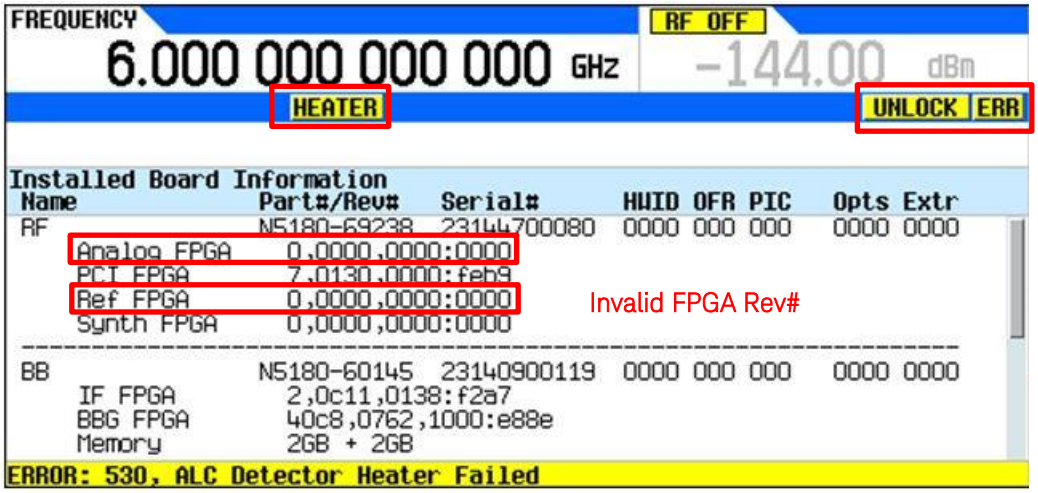
Situation:

Recently we noticed several A3 RF Assemblies return to factory with the following Heater and Unlock errors at the Annunciators area. It can also include errors 619, FPGA revision is invalid. Do refer to Figure 1a and 1b for the details.

Figure 1a – Heater and Unlock Errors with Invalid FPGA Rev #



Or

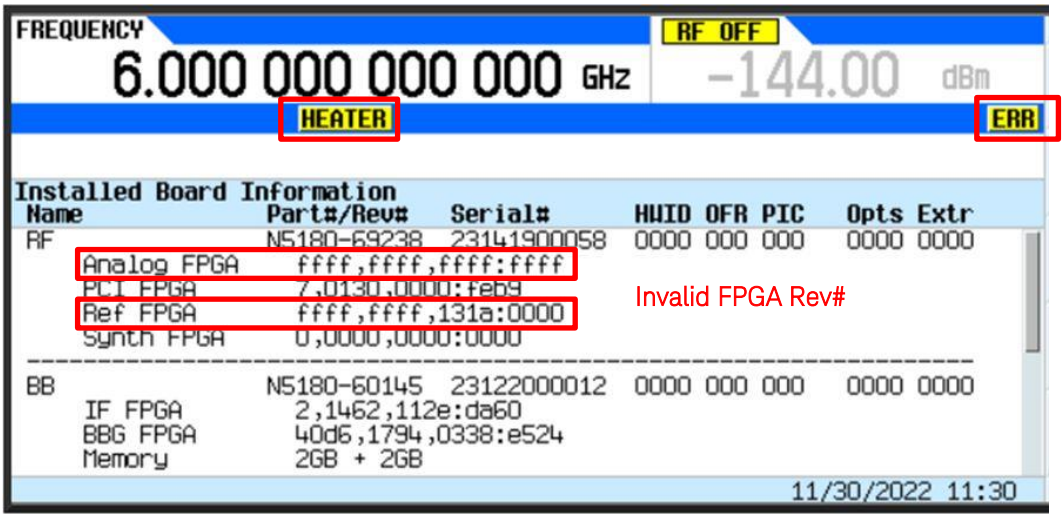


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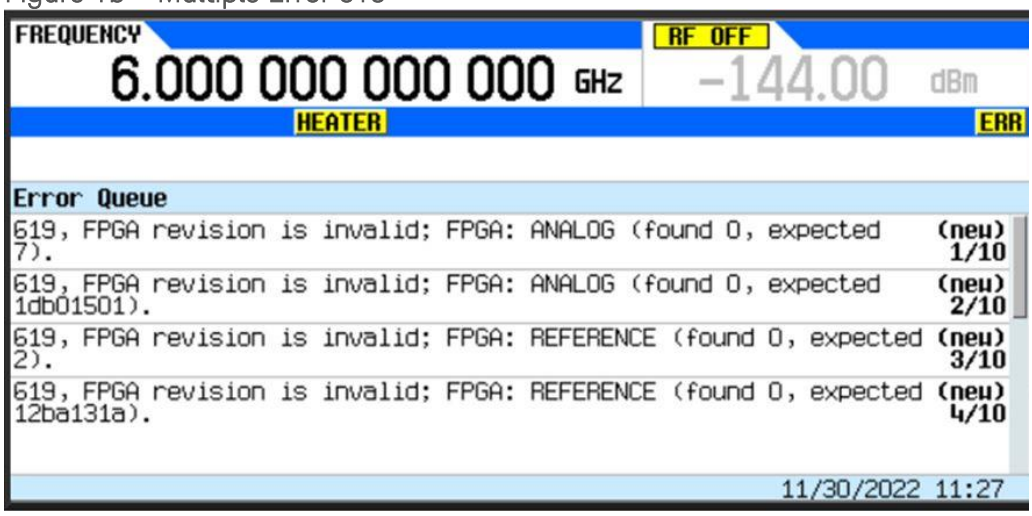
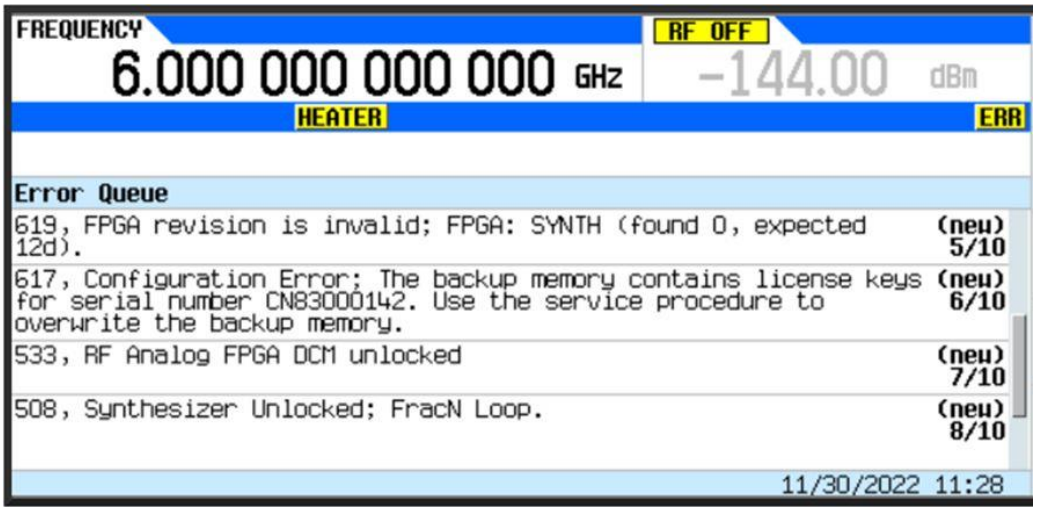
Figure 1b – Multiple Error 619





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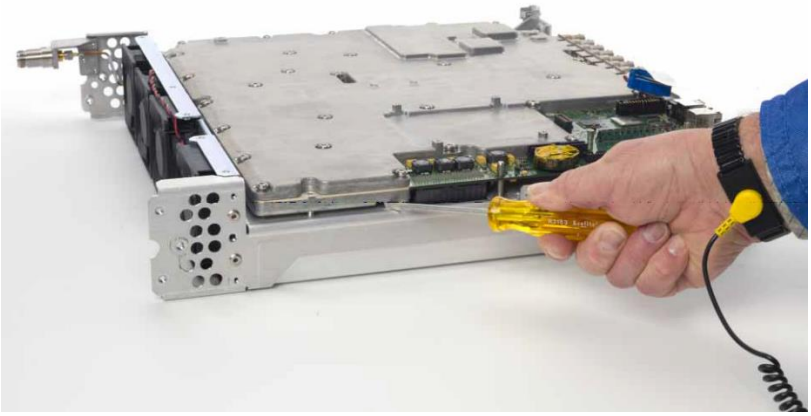
Solution/Action:
This Service Note is to emphasize on the proper handling of the A3 RF Assembly board during removal and replacement procedure in use together with the X-Series Signal Generator Service Guide (N5180-90059), Assembly Replacement Section for A3 RF assembly.

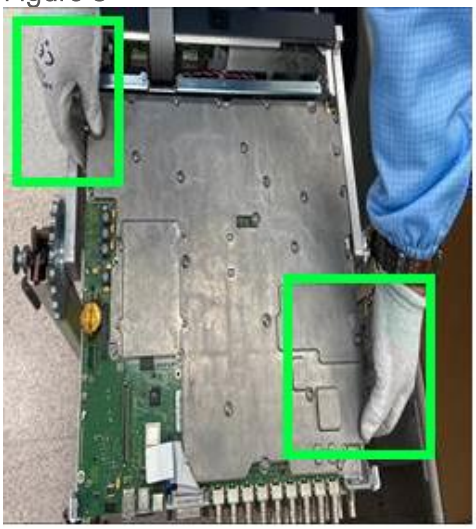
For removal, pry slots are provided on both sides of the A3 RF assembly to aid in removing of the board. Use a flat head (a wedge-shaped flat tip) screwdriver to loosen the board from the chassis as shown in Figure 2.

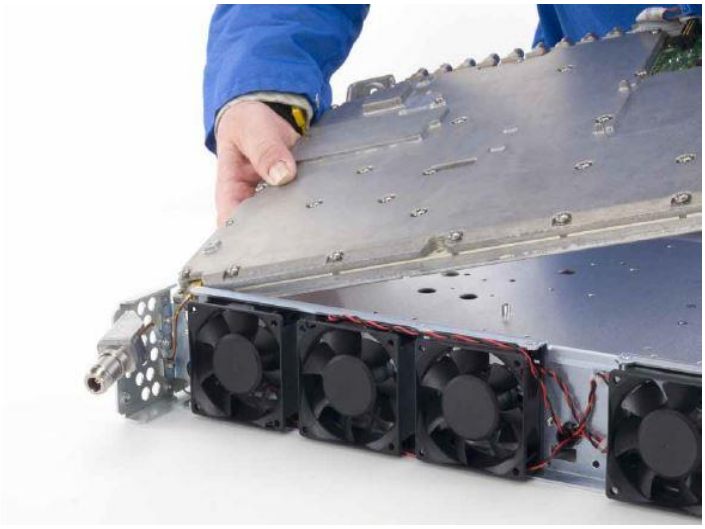
Figure 2



Always hold the board at the area highlighted in green as shown in Figure 3.

Figure 3



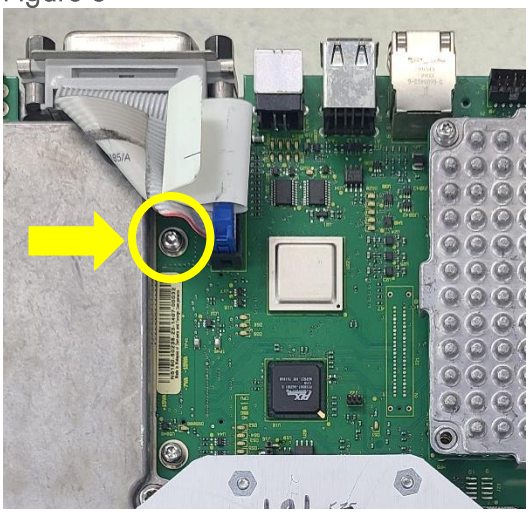


Avoid holding the board at the PCB area as shown in Figure 4.

Figure 4

Another precaution is when removing and reinstalling back the screw (refer to Figure 5), it is not necessary to remove the ribbon cable to avoid re-attaching the ribbon cable back.

Figure 5



Revision History:

Date	Service Note Revision	Author	Reason for Change
13 Dec 2022	01	Petrina Yong	As Published

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