

# Modification Recommended Service Note

Supersedes:  
NONE

## 33621A Function Generator

Serial Numbers: MY00000000 to MY53700482

**The Problem** – Customers have reported that when power is applied to the instrument but the instrument NOT turned on (“Standby Mode”), **some** instruments will emit an audible high-pitched whistle or whine. To fix this, the existing power supply must be replaced with the newer power supply, as detailed in the solution below.

### Parts Required:

P/N	Description	Qty
5041-5256	Power Supply AC-DC Switching 100 Watt 1-Output 24V 4.2A	1

### ADMINISTRATIVE INFORMATION

ACTION	<input checked="" type="checkbox"/> ON SPECIFIED FAILURE	STANDARDS		
CATEGORY:	<input type="checkbox"/> AGREEABLE TIME	LABOR:	1.5 Hours	
LOCATION	<input type="checkbox"/> CUSTOMER INSTALLABLE	SERVICE:	<input type="checkbox"/> RETURN	USED <input type="checkbox"/> RETURN
CATEGORY:	<input type="checkbox"/> ON-SITE (active On-site contract required)	INVENTORY:	<input type="checkbox"/> SCRAP	PARTS: <input type="checkbox"/> SCRAP
	<input checked="" type="checkbox"/> SERVICE CENTER		<input type="checkbox"/> SEE TEXT	<input type="checkbox"/> SEE TEXT
	<input type="checkbox"/> CHANNEL PARTNERS			
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	NO CHARGE AVAILABLE UNTIL:	January 1, 2018	
	<input checked="" type="checkbox"/> Calibration Required	PRODUCT LINE:	GM	
	<input type="checkbox"/> Calibration NOT Required	AUTHOR:	MDB	

ADDITIONAL INFORMATION:

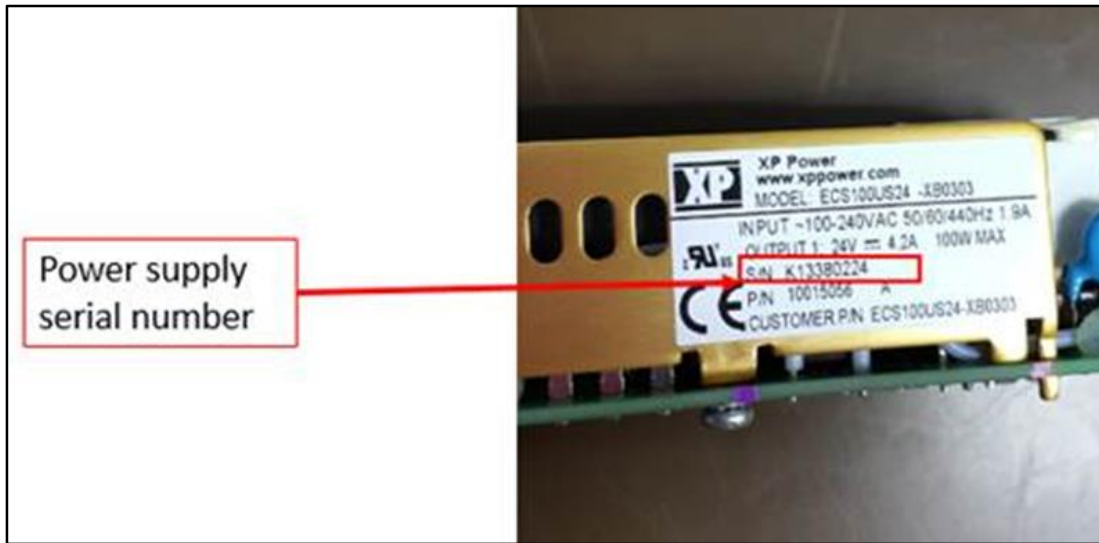
**Situation:**

To satisfy customers who complain about the audible high-pitched whistle or whine from the 33621A in Standby mode, we will replace the power supply free of charge until the end of January, 2018. This is not a recall, and will only be done when a customer complains about the noise in Standby mode.

If the unit in question proves to be “No Trouble Found”, it will be returned to the customer as is.

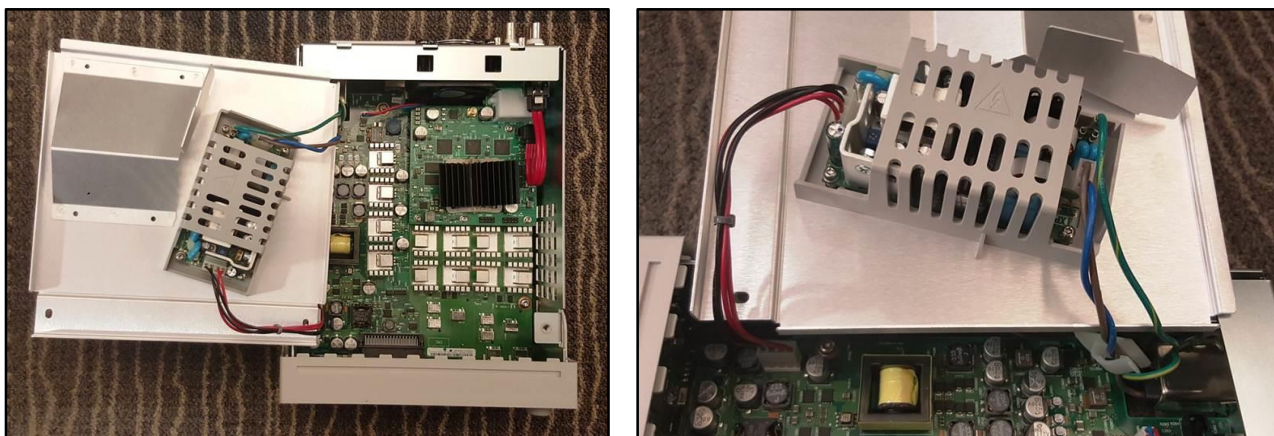
**Solution/Action:**

The solution is to replace the old power supply with a new one. The new power supplies have a Serial Number of K1538xxxx or higher.



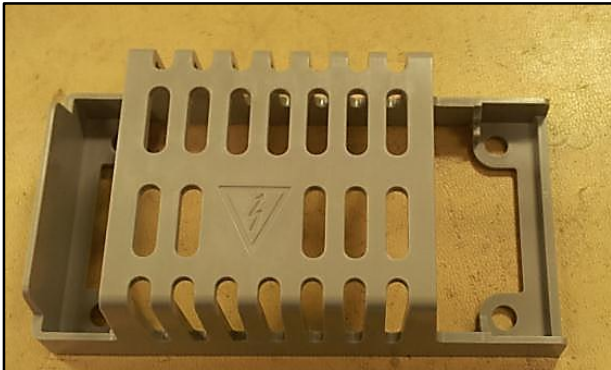
The procedure for replacing the power supply module is shown below.

The power supply is accessed by removing the back cover and sliding out the surrounding metal wraparound cover.

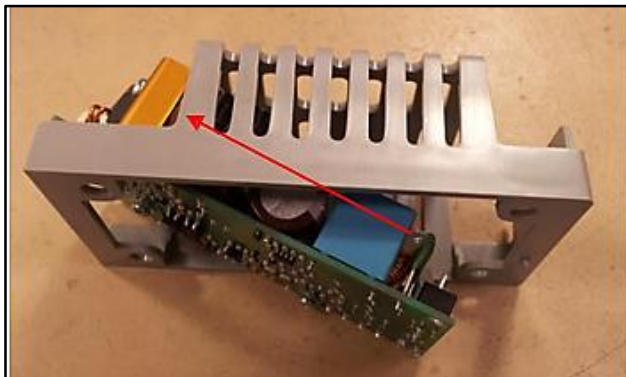


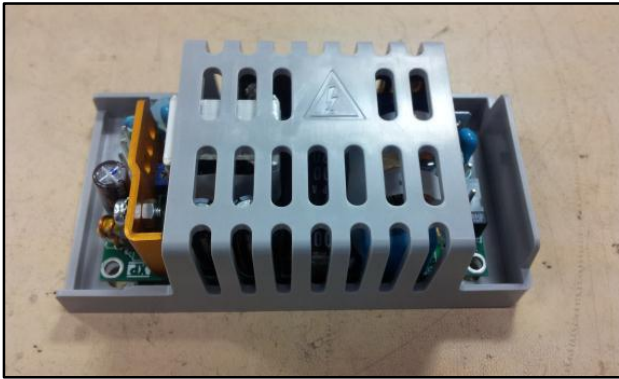
Disconnect the power input and output connectors and remove the four screws holding the power supply to the swing out panel.

Take the Power Supply (5041-5256) out of the Power Supply Shield (5041-5252).

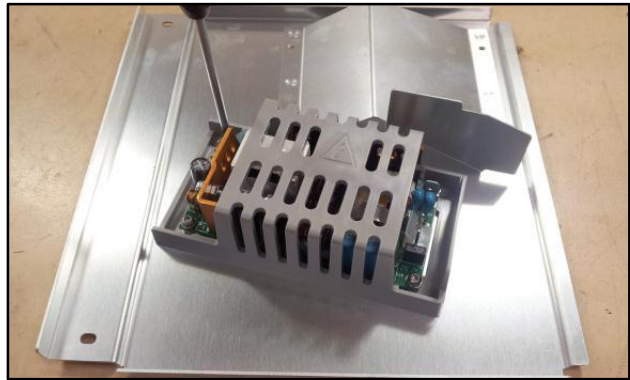
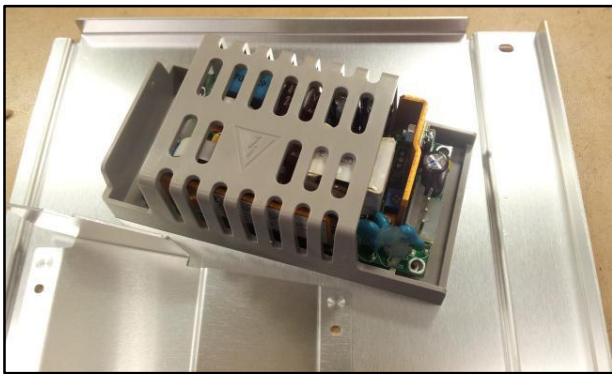


Assemble the new Power Supply into the Power Supply Shield by sliding the power supply into the shield. Note the orientation of the power supply needs to be correct, where the highlighted capacitor needs to be clearly visible.

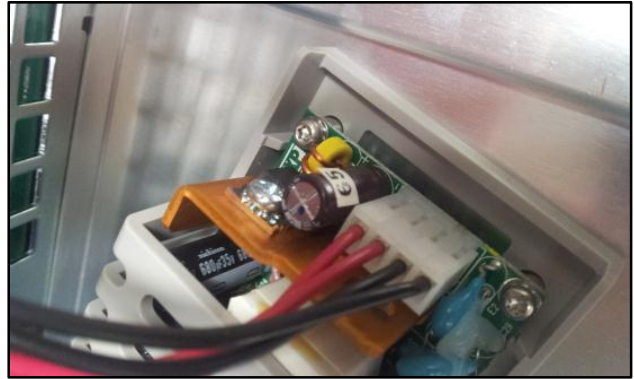
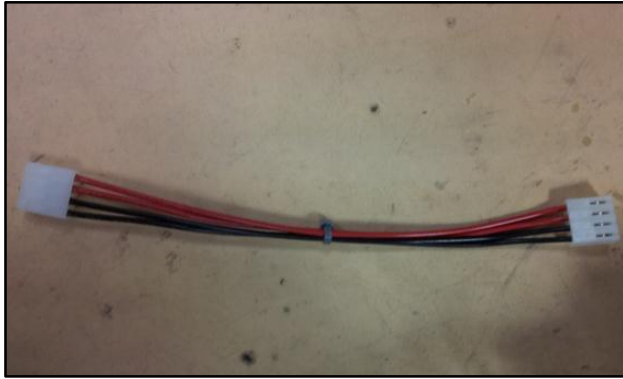




Assemble the Power Supply Shield with the Power Supply in it to the Power Supply Deck as shown. Make sure the orientation of the power supply is correct. Secure the four screws (0515-0430) to the Power Supply Deck by using T10 Torx as shown below.



Connect Power Supply Cable (5041-5251) to the Power Supply and the PCB Main Board Assembly.



Re-attach the line power connectors, being careful to get the orientation of the connectors correct.



Check the Function Generator with power applied but not turned on (Standby Mode) to verify no high-pitched noise is present.

**Revision History:**

Date	Service Note Revision	Author	Reason for Change
30 Dec 2106	01	MDB	As Published