



Broadcast Electronics Inc.

4100 North 24th Street, Quincy, Illinois 62305 USA • Phone (217) 224-9600 • Fax (217) 224-9607 • www.bdcast.com • bdcast@bdcast.com



FXi 60/250 Exciter

Fix for Power Supply Interrupts Application Guide

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Fix for Power Supply Interrupts Application Guide

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1 Prepare to Replace C168

1.1 Overview

Problem: Short Interruptions in the FXi Power Supply will latch up an IC on the DSP board thus causing the system to run without audio.

Affected Units: Any FXi 60 or FXi 250 manufactured prior to 3/15/07.

Fix: Broadcast Electronics, Inc. has made a C168 replacement cap (Part Number 023-1075) available free of charge. Please contact the RF Customer service department 217/224-9617.

1.2 Tools / Items Needed

Supplied By Customer:

- 700°F Soldering Iron with 1/10" Pencil Tip
- SN 63PB37 Solder or Equivalent
- General Soldering Tools
- RTV Sealant

Supplied By B.E.

- 10uF Electrolytic Non-Polarized Cap (Part Number 023-1075 supplied by B.E.)
- 6.75 inches Stranded Wire (Part Number 601-1893 supplied by B.E.)

1.3 Estimated Time for Replacement

Providing that you have the tools listed and items listed above, it will take approximately 10-15 minutes to replace C168 on the Exciter Power Supply Board.

2 Replace C168

2.1 Turn the FXi AC Power Switch to OFF

2.2 Disconnect Cabling from the FXi

2.3 Remove the FXi from the Rack and place on Bench



2.4 Remove Power Supply Hardware

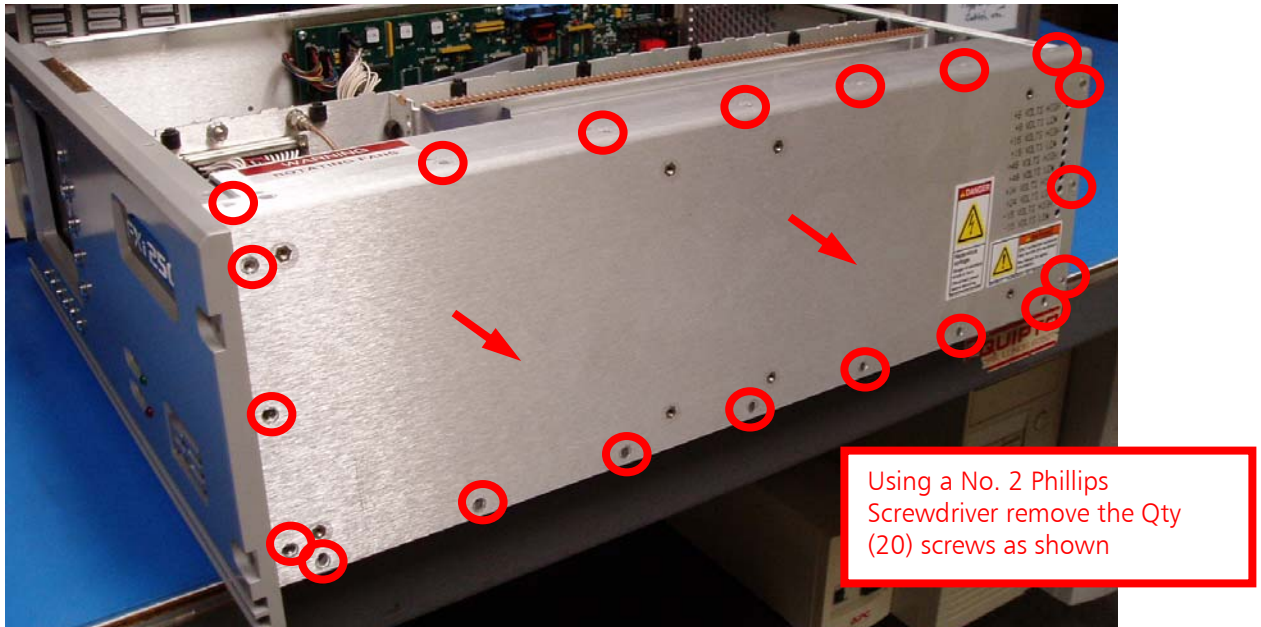


Figure 1 – Power Supply Hardware Removal

2.5 Remove Power Supply

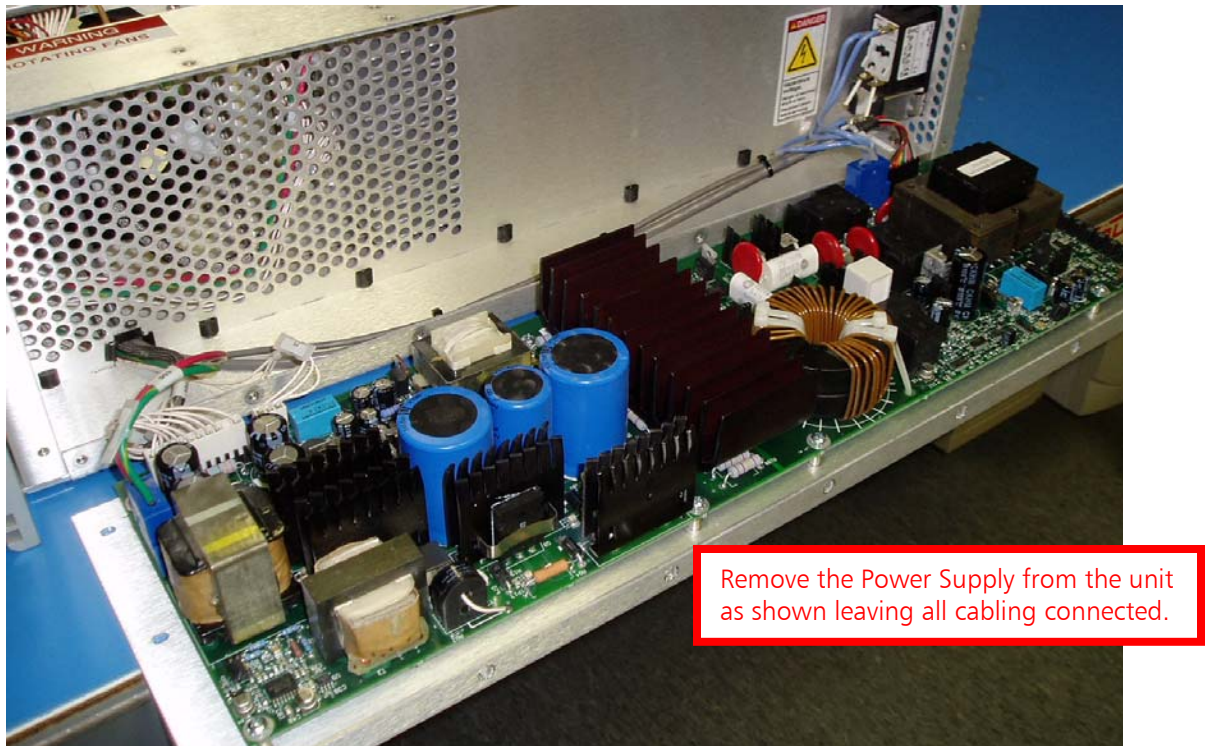


Figure 2 – FXi Power Supply Removal

2.6 Remove C168

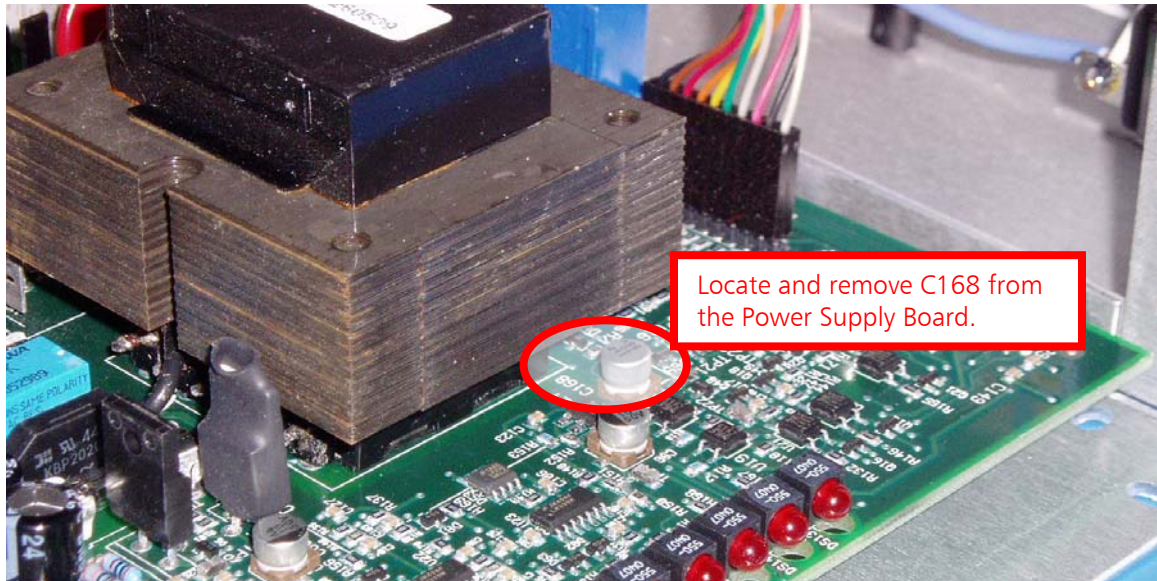


Figure 3 – C168 Removal

2.7 Install 10uF Non-Polarized Cap (023-1075)

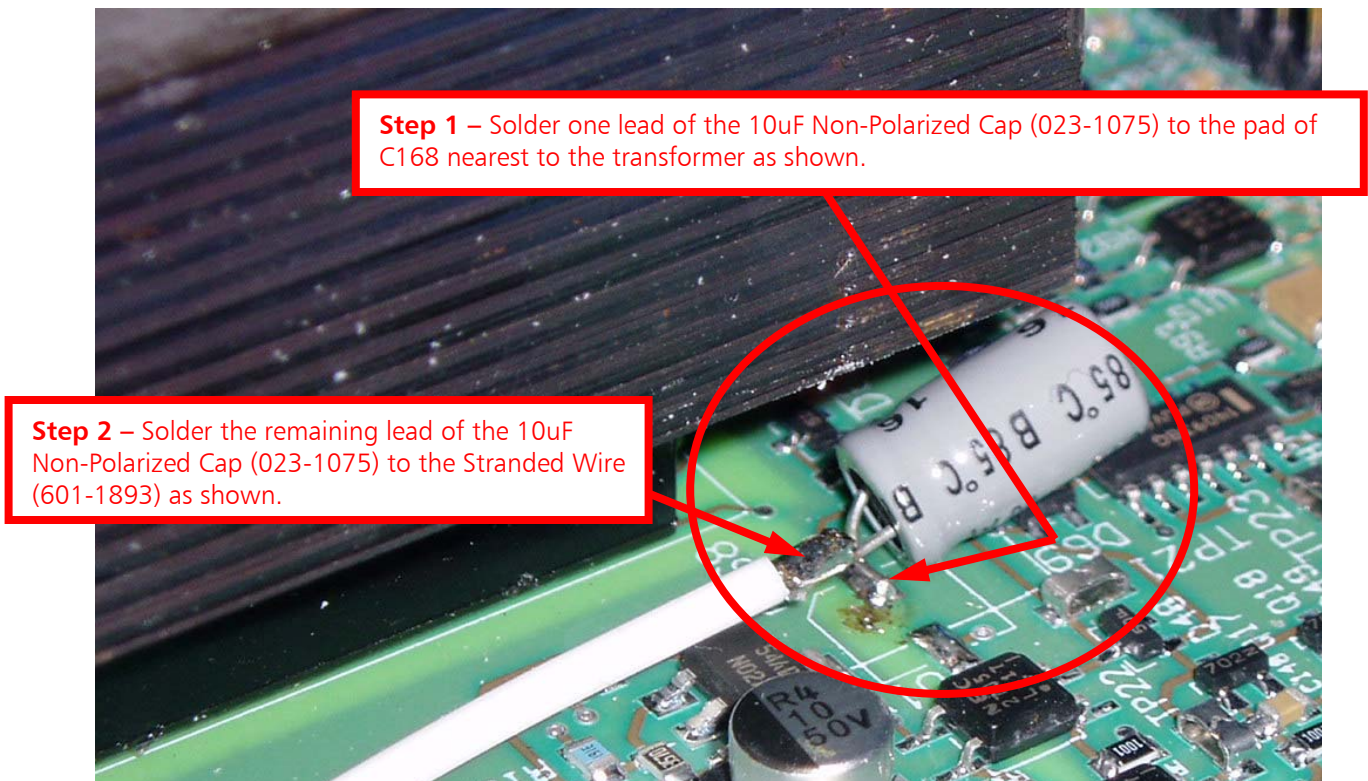


Figure 4 – Install 10uF Non-Polarized Cap

2.8 Solder Wire to R187

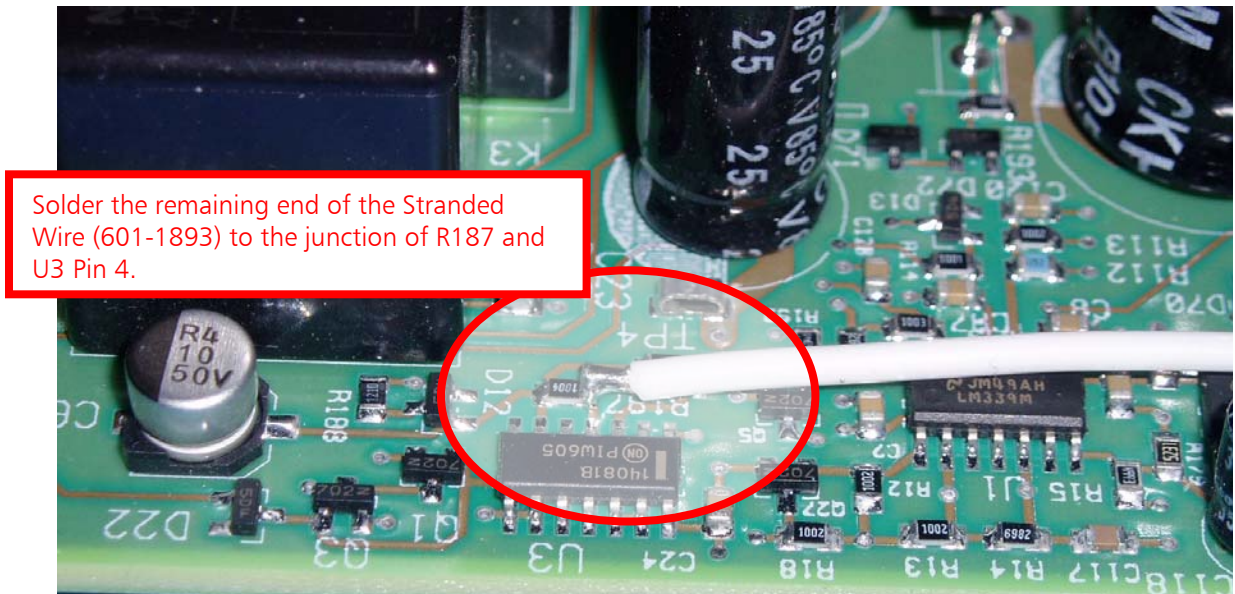


Figure 5 – Solder Wire to R187

2.9 Board After Cap and Wire Installation

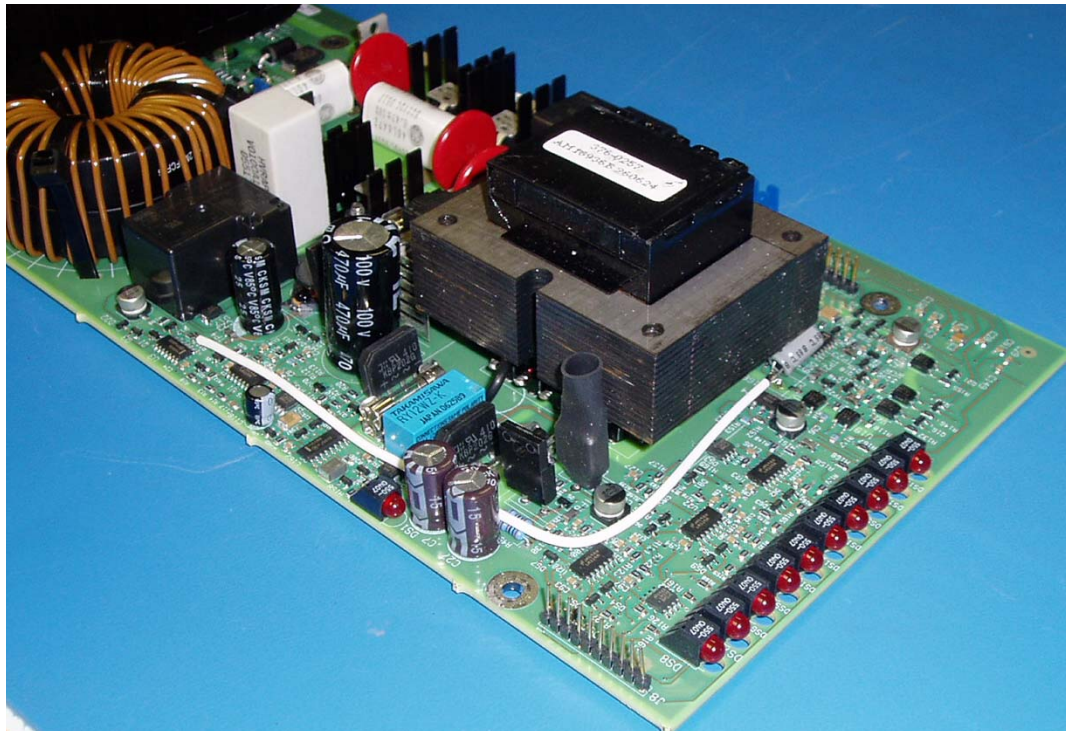


Figure 6 – Power Supply Board After Cap and Wire Installation

2.10 Apply RTV

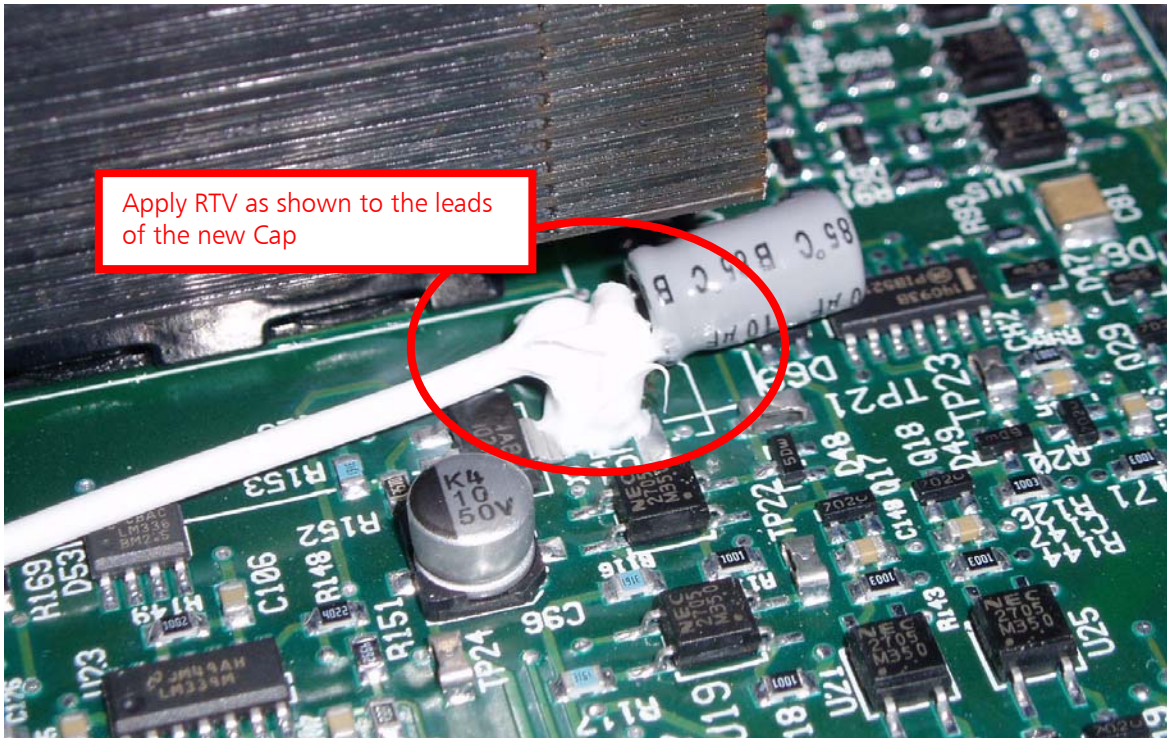


Figure 7 – Apply RTV to New Cap

2.11 Re-Install Power Supply

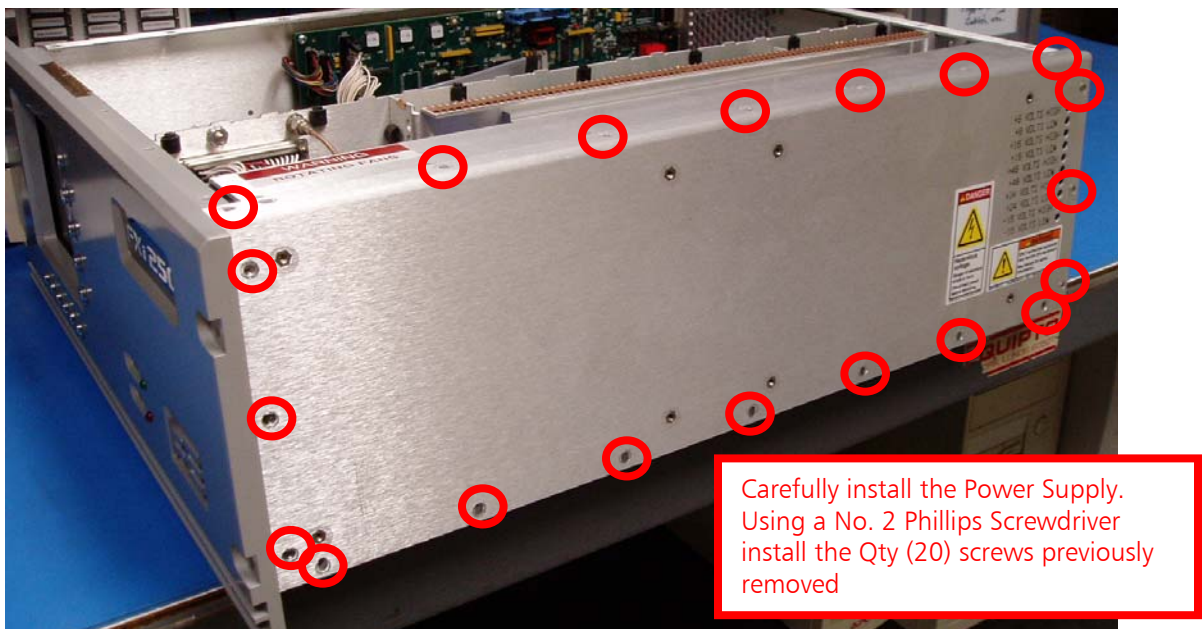


Figure 8 – FXi Exciter Power Supply Installation

2.12 Install Exciter Back Into Rack

2.13 Re-Connect All Cabling

2.14 Turn AC Power Switch ON

The Exciter should now be Operational.

3 RF Customer Service Contact Information

RF Customer Service -

Telephone: (217) 224-9617

E-Mail: rfservice@bdcast.com

Fax: (217) 224-9607

