

STX Power Supply Mother Board Replacement Application Guide

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1 STX Power Supply Mother Board Replacement

1.1 Overview of the removal and installation of the Power Supply Mother Board

Replacing the Power Supply Mother Board is a straight forward procedure. No adjustments to the Replacement mother board are required.

2 Preparation

2.1 Overview / Estimated Completion Time

The basic replacement of the STX Power Supply Mother Board will take about 5 minutes (per deck) after it is un-racked and placed in a proper work area. Note: If the Power Supply Mother Board is being replaced because of an upgrade, all individual decks must be upgraded. The STX LP 5 kW Transmitter has five separate decks, the STX LP 3 kW has three separate decks, etc.

2.2 Items / Tools required for the Replacement Process

- No. 2 Phillips Screwdriver
- 919-4090 STX LP Power Supply Mother Board

3 Replacement of the Power Supply Mother Board



WARNING: ENSURE ALL PRIMARY POWER IS DISCONNECTED BEFORE PROCEEDING.

Step 1 – Power unit OFF, disconnect all transmitter primary power, remove from rack and place on bench.

Step 2 – Remove the power supply rear cover screws using a #2 Phillips screwdriver.

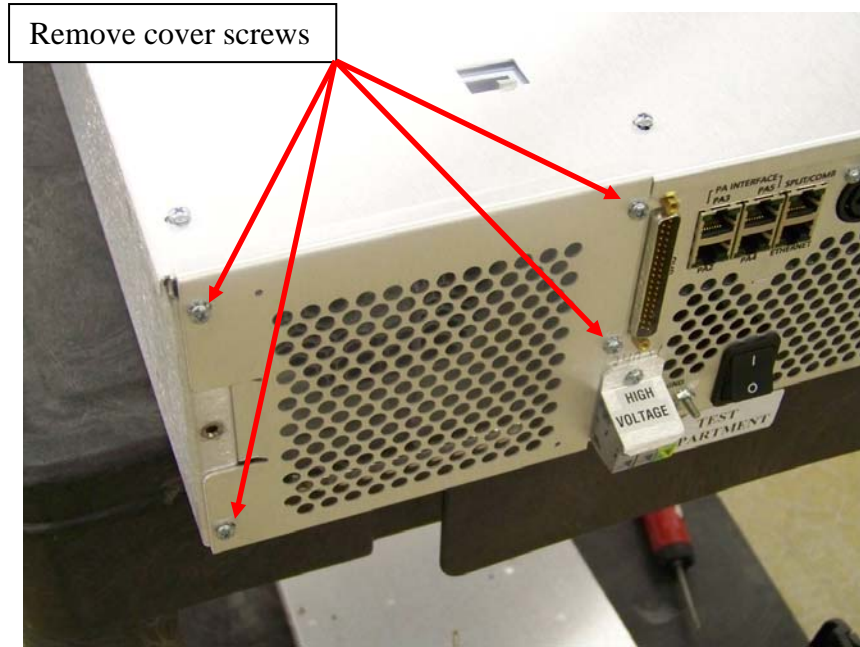


Figure 1. Remove Power Supply rear cover

Step 3 – If your unit is equipped with the clear plastic power supply retainer, remove it now by rotating the piece out from the top.



Figure 2. Retainer removal

NOTE: Units shipped prior to December 2009 may not include this power supply retainer. This retainer will securely hold the power supply in place during transit and can be permanently installed because it does not impede airflow.

If your transmitter does not have this retainer, contact RF Technical Services and request part number 471-4260 while referencing this document (597-4101-003). This retainer will be provided at no charge, see the end of this guide for assembly instructions.

Step 4 – Turn the power supply retaining arm counter clockwise to disengage it from the transmitter top cover. Then remove the transmitter top cover screws using a #2 Phillips screwdriver.

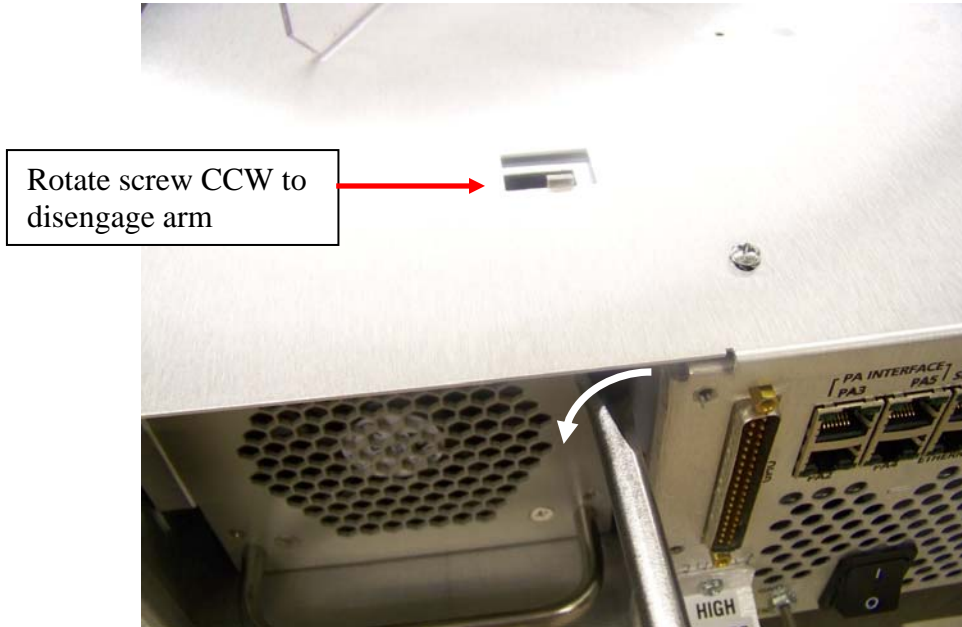


Figure 3. Disengage power supply

Step 5 – Remove the power supply by grasping the handle and pulling the power supply out.

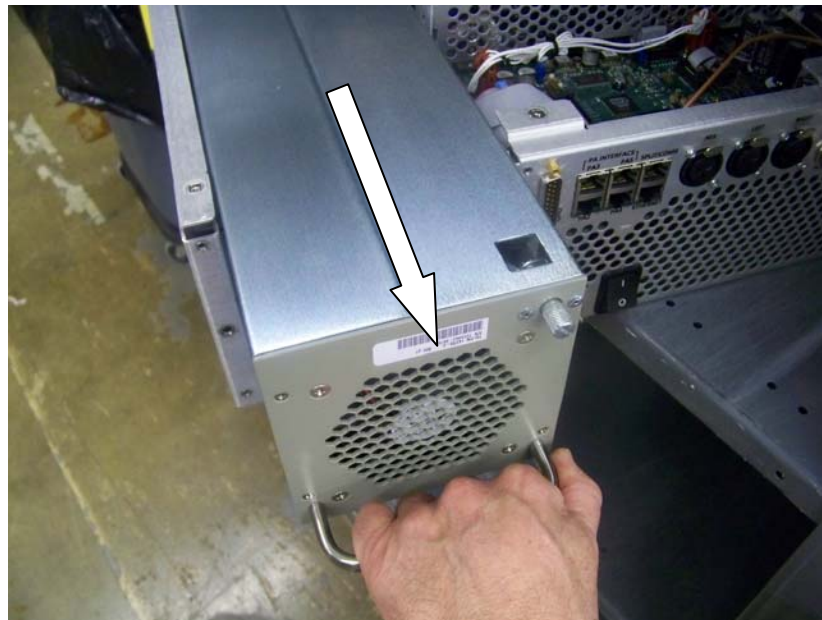


Figure 4. Remove power supply

Step 6 – Disconnect the four wire harness connectors from the front side of the mother board.

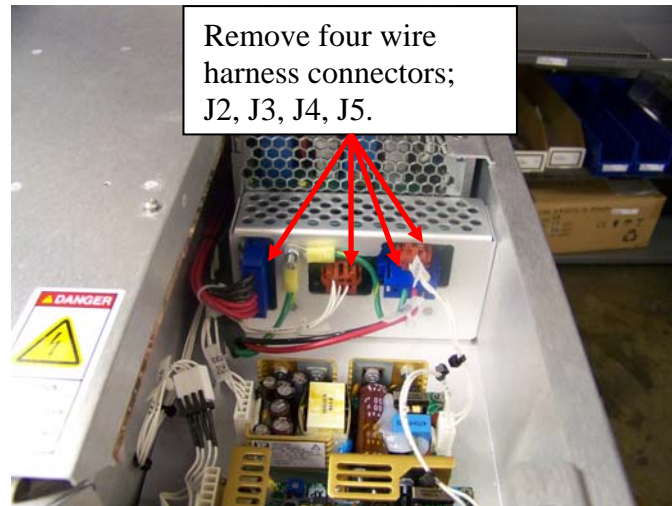


Figure 5. Disconnect wire harness

Step 7 – Remove two #2 Philips head screws holding the mother board to the chassis.

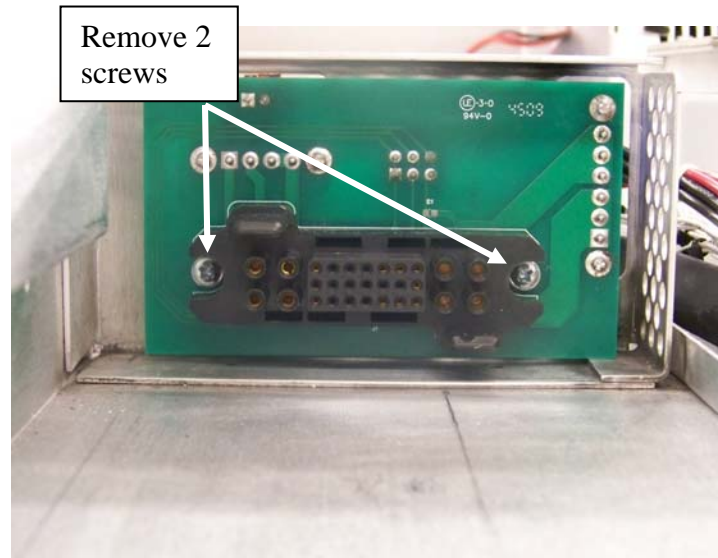


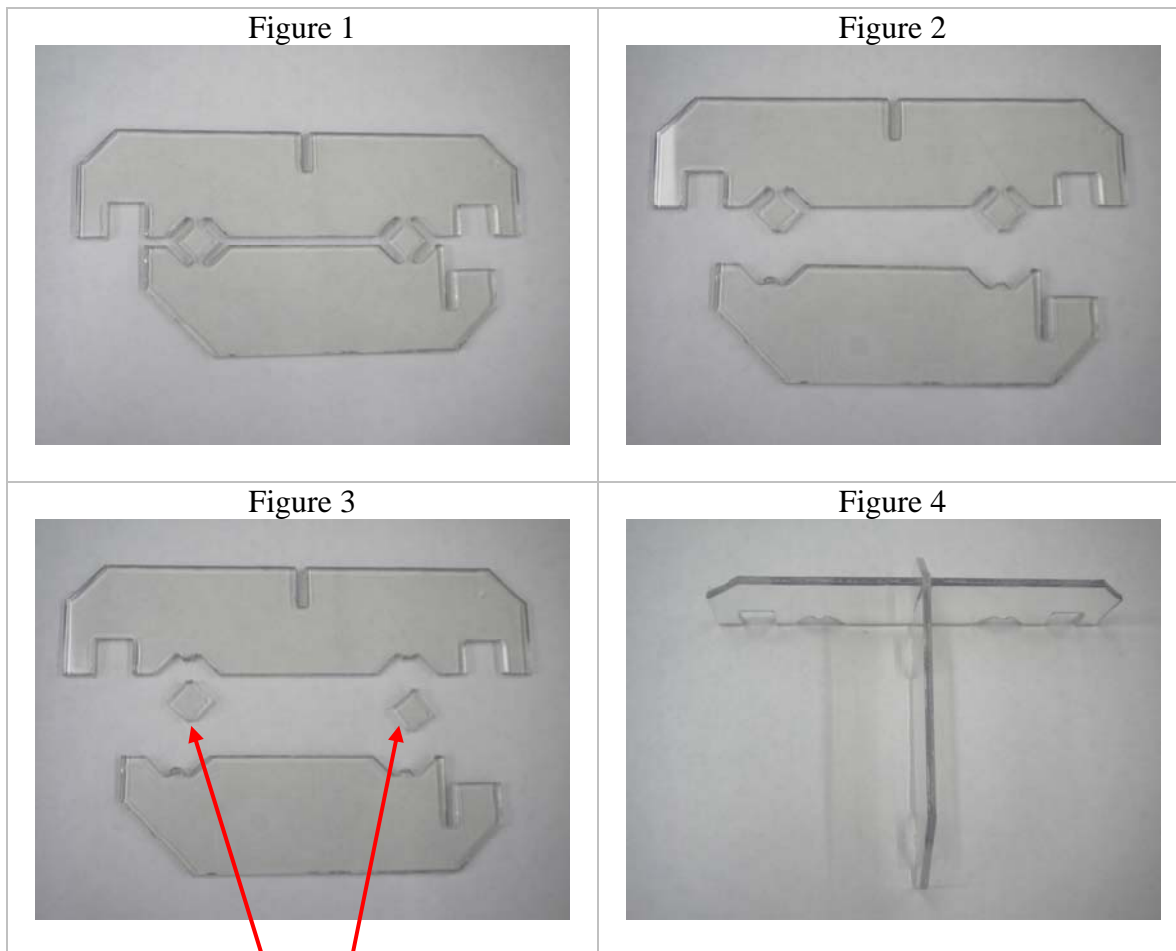
Figure 6. Remove mother board screws

Step 8 – Remove the motherboard from the chassis and replace with new board.

Step 9 – Assemble in the reverse order and return the transmitter to normal operation.

4 Power Supply Retainer Assembly Instructions

Assembling the 471-4260 STX Power Supply Retainer, snap pieces apart and assemble as shown:



Discard these pieces.

5 RF Technical Services Contact Information

RF Technical Services -

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