

STX LP, PA 12VDC Power Supply Field Repair Kit Application Guide

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STX LP, PA 12VDC Power Supply

Field Repair kit Application Guide

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1 STX PA 12VDC Power Supply replacement

1.1 Overview of installation of the PA 12VDC Power Supply.

The PA 12VDC Power Supply may have to be replaced in some cases with a power supply with slightly higher capacity. This power supply is not a direct drop-in replacement in some transmitters without an adapter cable. This adapter cable will interface the replacement power supply in transmitters with a 6-wire pin connector on the original wire harness. Later models will have a 4-pin connector on the wire harness and will not need the adapter cable.

If your transmitter has a 4-wire connector on the harness for the PA Power Supply, discard the adapter, the replacement power supply is a direct replacement.

If your transmitter has an adapter cable already and you are replacing the PA 12VDC Power Supply, replace the existing adapter cable with the new adapter cable that was shipped with the replacement power supply. DO NOT use the adapter cable intended for any other power supply other than the one shipped with the replacement power supply. Also do not use two adapter cables connected to each other.

2 Installation Preparation

2.1 Overview / Estimated Completion Time for Installation

B.E. STX LP PA 12VDC Power Supply Field replacement kit is a straight forward replacement of the power supply using an adapter cable to account for the difference in connector size on early models. Later models with a 4-pin connector will not need the adapter cable, the transmitter harness will pin directly onto the power supply. This procedure will take 15 minutes once the STX is out of the rack and on the bench.

2.2 Items / Tools required for the Upgrade Process

- No. 2 Phillips Screwdriver
- 979-4114 PA 12VDC Power Supply Field replacement kit

3 Removal of the PA 12VDC Power Supply from the STX chassis.



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 transmitter top cover screws using a #2 Phillips screwdriver.



Step 3 – Locate the PA 12VDC Power Supply.

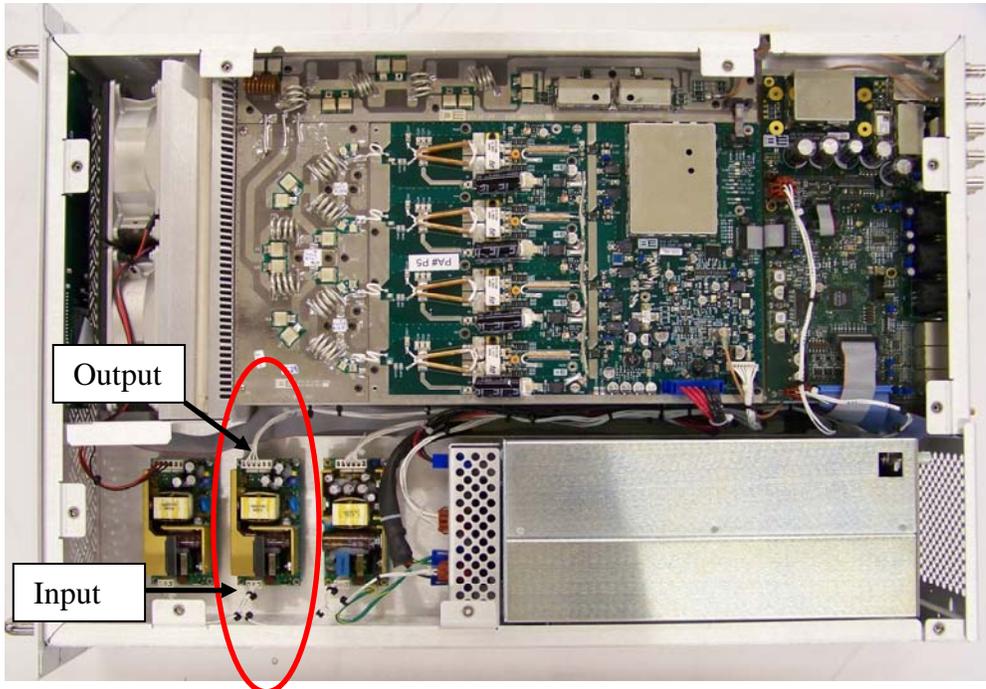


Figure 1. PA 12VDC Power Supply to be replaced.

Step 4 – Disconnect the wire Input and Output harness from the power supply.

Step 5 – Remove the #2 Philips screw from one corner of the power supply.

Step 6 – Lift the power supply off the locking finger studs at the other corners.

Step 7 – Remove any power supply adapter cable if present and discard.

4 Installation of the PA 12VDC Power Supply.

Step 8 – Install the new power supply in the same orientation as the one that was removed.

Step 9 – Replace the #2 Philips screw removed previously.

Step 10 – Reattach the Input wire harness.

Step 11 –Transmitters with the 6-pin connector; install the adapter cable to the output of to the replacement power supply and connect to the harness. DO NOT connect two adapter cables together in this circuit. If your transmitter has the 4-pin connector, you may discard the adapter cable that came with the replacement power supply and connect the original harness directly to the power supply.

Step 12 –Tie wrap the harness in a neat fashion.

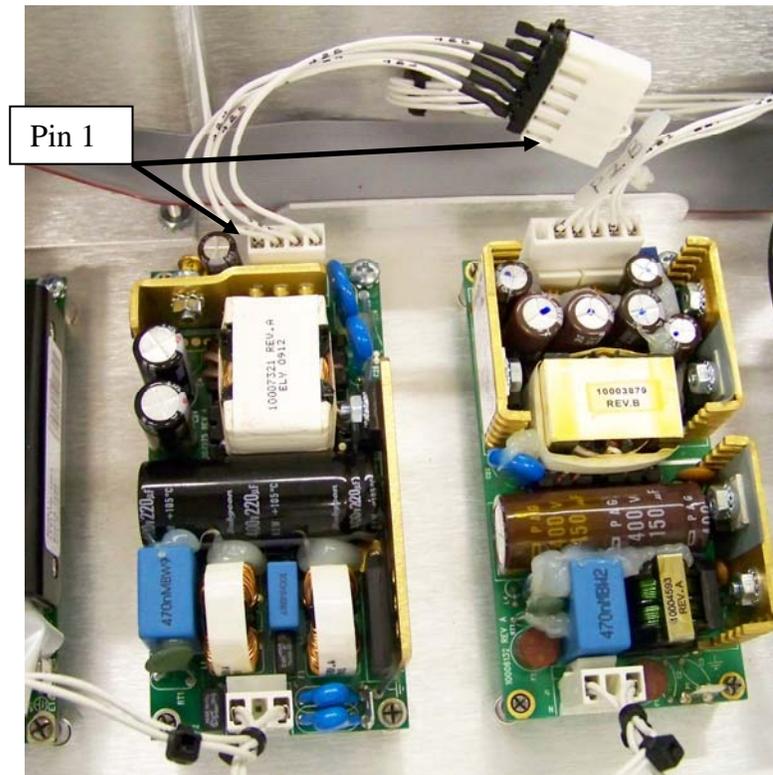


Figure 2. PA 12VDC Power Supply installed using adapter cable.

Step 12 – Replace top cover removed previously.

Step 13 – Turn unit on to verify proper transmitter operation and voltage metering on the front panel.

5 Troubleshooting

To verify operation and voltages out of the PA 12VDC Power Supply, refer to the following table.

Pin 1	Pin 2	Pin 3	Pin 4
+12 VDC	+12 VDC	Return	Return

6 RF Technical Services Contact Information

RF Technical Services -

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