



PZE/TBE Power Supply/Printed Circuit Board Replacement

1 Intent & Scope

This document details the procedures for installing and replacing the power supply or the printed circuit board (PCB) in a MicroComm TBE-310, MicroComm PZE-110-0 or PZE-110-1

2 General Info

WARNING

Circuit board components are highly susceptible to damage from static electricity. It is recommended that when removing or replacing a circuit board that a grounding strap is worn at all times with the work carried out on a grounded conductive pad. When handling the circuit boards, if possible, only the board edges should be touched.

ALTERNATE PRECAUTIONS

If a grounding system is not available you can leave the power supply connected but turned off, this will maintain a grounding connection to the case. When an individual touches the case any static electric build up will be discharged. Periodically touch the case while you are working. Reuse the static bag to store the replaced parts and try, if possible, to handle circuit boards by the board edges only.

3 Tools Required

The following tools are required to replace circuit boards in a TBE:

#1 Phillips screwdriver

3/16" slotted screwdriver or Robertson #1 (preferable)

4 Replacement Procedure

4.1 Removing and Replacing the Top Cover

- 4.1.1 Remove the eight Phillips screws that are holding the mounting tabs in place.
- 4.1.2 Remove the four Phillips screws that attach the front plate to the top plate.
- 4.1.3 Remove the six Robertson slot screws and six tooth washers that attach the top plate to the base plate.
- 4.1.4 Remove the top cover from the TBE/PZE.
- 4.1.5 When replacing the top cover and mounting tabs, reverse the steps detailed above.

4.2 Removing and Replacing the Power Supply

- 4.2.1 Remove the Top Cover following the directions outlined in Section 4.1
- 4.2.2 Unplug the power supply connector from the PCB.
- 4.2.3 Remove the two Robertson slot screws and two tooth washers that attach the power supply to the rear of the base plate.
- 4.2.4 To install a new power supply, reverse the previous two steps.

4.3 Removing and Replacing the Printed Circuit Board (TBE)

- 4.3.1 Unplug the power supply connector from the PCB.
- 4.3.2 Disconnect the green ground wire by removing the Phillips slot screw and lock washer from the terminal block on the circuit board.
- 4.3.3 Unplug the fans from the PCB.
- 4.3.4 Remove the ten Robertson slot screws and ten tooth washers holding the PCB in place, and remove the PCB from the base plate.
- 4.3.5 To install the replacement PCB, reverse the previous four steps.

4.4 Removing and Replacing the Printed Circuit Board (PZE-110-0)

- 4.4.1 Unplug the power supply connector from the PCB.
- 4.4.2 Disconnect the green ground wire by removing the Phillips slot screw and lock washer from the terminal block on the circuit board.
- 4.4.3 Remove the eight Robertson slot screws and ten tooth washers holding the PCB in place, and remove the PCB from the base plate.
- 4.4.4 To install the replacement PCB, reverse the previous three steps.

4.5 Removing and Replacing the Printed Circuit Board (PZE-110-1)

- 4.5.1 Disconnect the green ground wire by removing the Phillips slot screw and lock washer from the terminal block on the circuit board.
 - 4.5.2 Remove the eight Robertson slot screws and ten tooth washers holding the PCB in place, and remove the PCB from the base plate.
 - 4.5.3 To install the replacement PCB, reverse the previous two steps.
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