



# Converting a DTXPRO-3Kxx Transmitter to Use 110VAC Fans for PA Cooling

*Service Bulletin SB-106*

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## Introduction

This manual was written for 3kW transmitters. There may be differences between your transmitter and the one described here. See SB-103 for instructions on how to modify an 800W or 1.2kW transmitter.

The MFA2PA amplifier frame can use either 220VAC or 110VAC fans with no change in function. This includes the status LEDs on the front of the frame. The IEC AC inlet on the rear of the MFA2PA can accept either 220VAC or 110VAC power.

## What Is Needed

- 8 ea Orion OA180AP-11-1TB 176x89 115VAC fans
- 4 ea IEC extension cord (AC6208)

## Procedure

1. Remove the two existing 220VAC fans and replace them with the 110VAC fans supplied. The power connectors and mounting are identical. The label on the old and new fans should face the rear of the transmitter, away from the air filter.
2. On the rear of the IEC AC inlet on the MFA2PA, switch the line (black) and neutral (white) quick disconnect spade connectors (Fig. 1).
3. Label the IEC AC inlet on the MFA2PA as 110VAC to prevent a 220VAC source from being plugged into it.
4. Disconnect the fan power cable from the rear IEC AC inlet of the MFA2PA frame, then disconnect the other end of this cable from the power source. Plug the IEC extension cord into one of the unused IEC 110V outlets on the rear panel of the power strip at the top of the control rack (Rack B). Plug the other end into the IEC AC inlet on the rear of the MFA2PA.

The transmitter should work exactly like it did before, except the MFA2PA fans will be on the white 110VAC breaker on the ACDIS4 panel and on the 100VAC breaker on the power strip.



## Reference Images

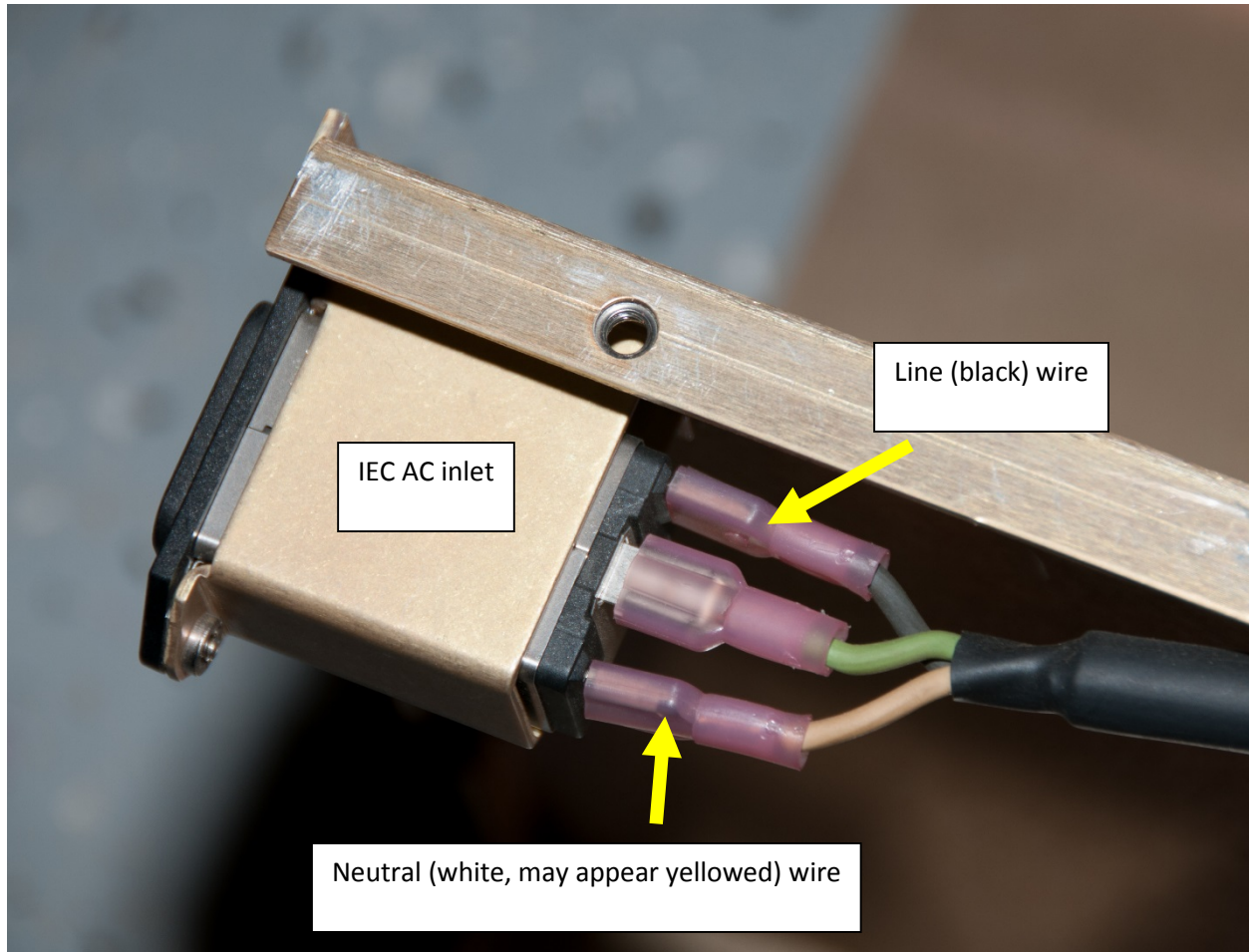


Fig. 1 – IEC AC Inlet at the rear of the MFA2PA **BEFORE** the wires are switched.

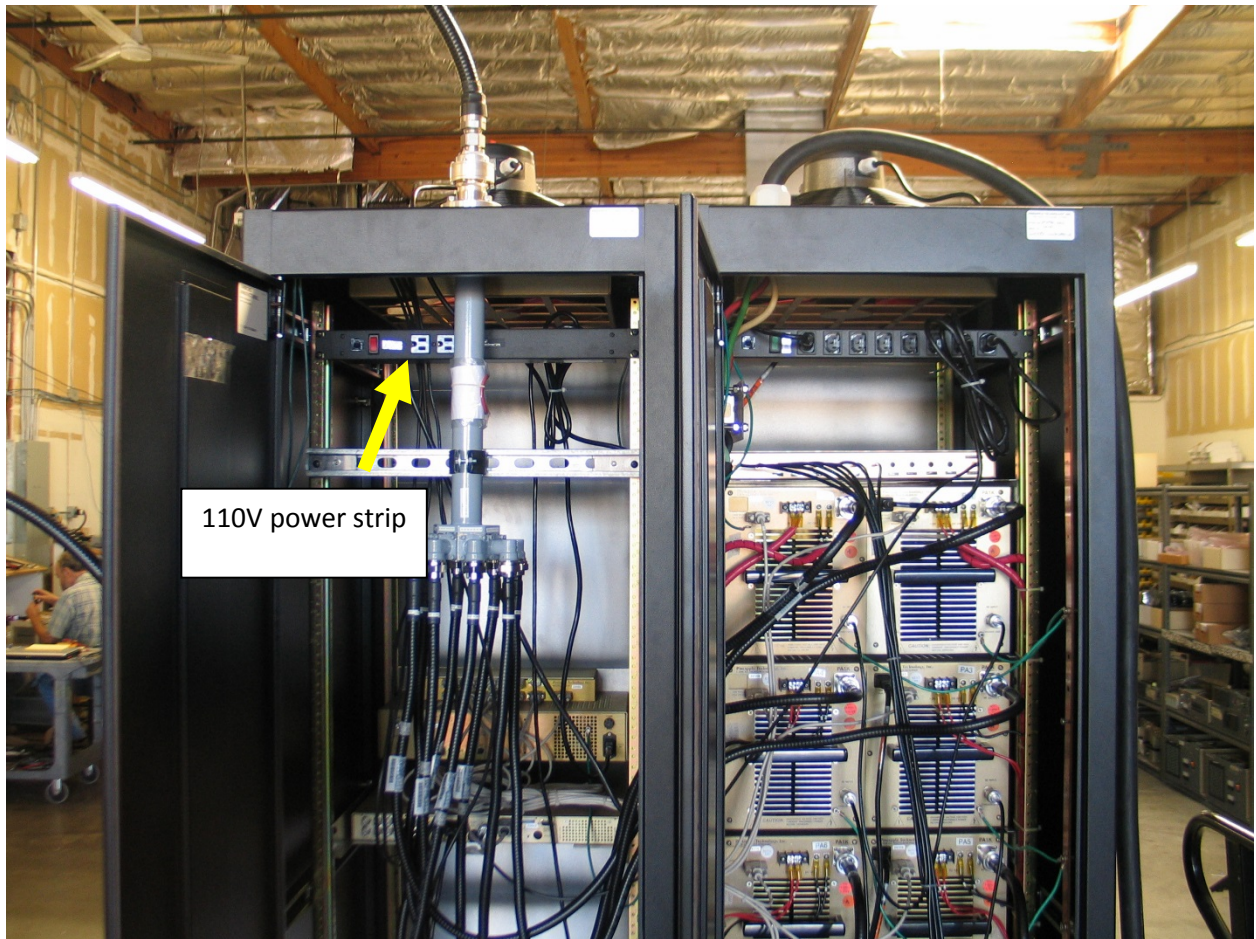


Fig. 2 – Location of the 110V power strip in the control rack (Rack B).