



Converting a DTXPRO-800xx or DTXPRO-1.2Kxx Transmitter to Use 110VAC Fans for PA Cooling

Service Bulletin SB-103

Prepared by Chris Anderson, Ed Wood, & Curtis Jefferson

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Introduction

This manual was written for 800W and 1.2kW UHF transmitters. There may be differences between your transmitter and the one described here. See SB-106 for instructions on how to modify a 3kW 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

- 2 ea Orion OA180AP-11-1TB 176x89 115VAC fans
- 1 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. 3).
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 ACDIS1 (Fig. 1) or ACDIS2 (Fig. 2) AC power distribution frame. (800 watt transmitters will have an ACDIS1, and 1.2kW transmitters will have an ACDIS2, but the procedure is the same for both.)
5. Plug the IEC extension cord into one of the unused IEC 110V outlets on the rear panel of the ACDIS1. 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 ACDIS1 panel.



Reference Images

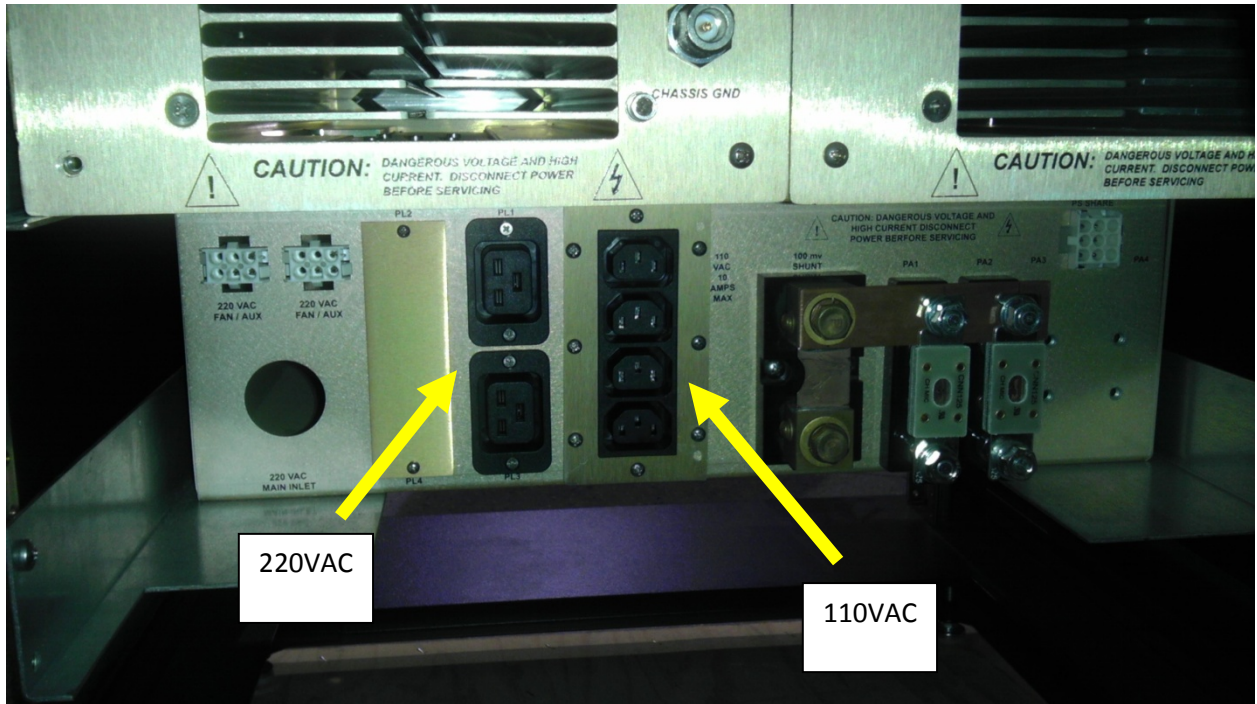


Fig. 1 – ACDIS1 in a DTXPRO-800U transmitter.

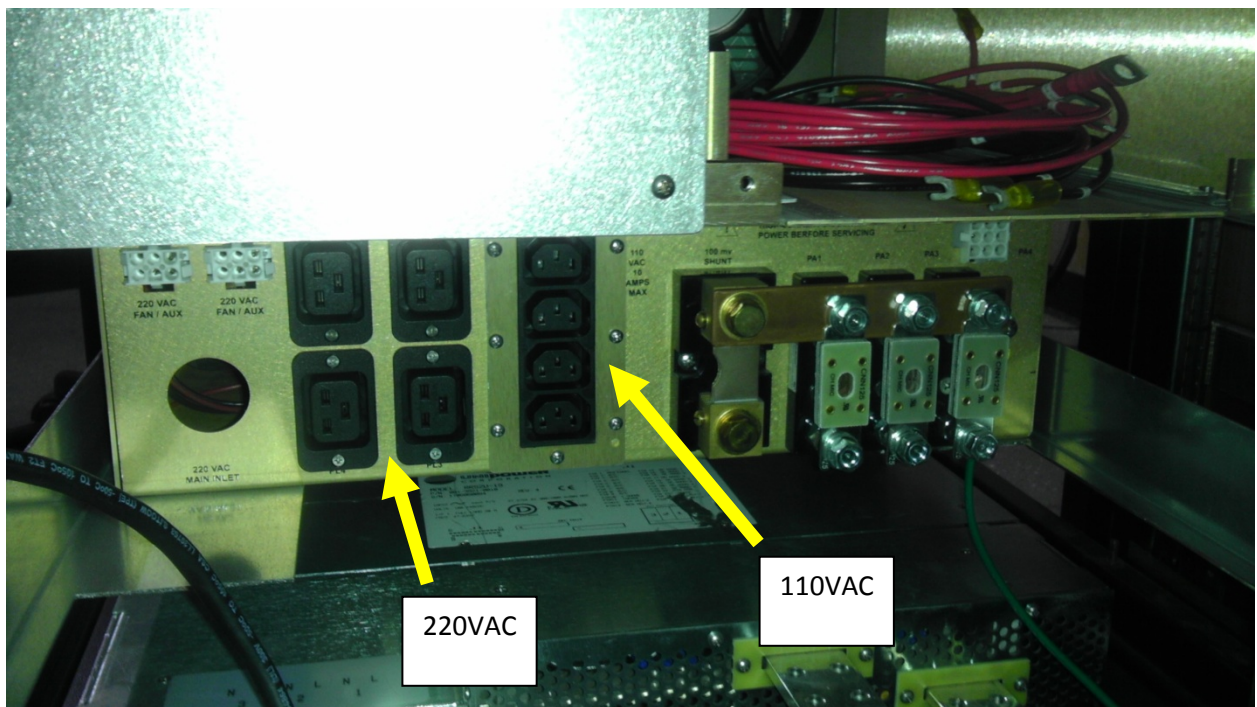


Fig. 2 – ACDIS2 in a DTXPRO-1.2KU transmitter.

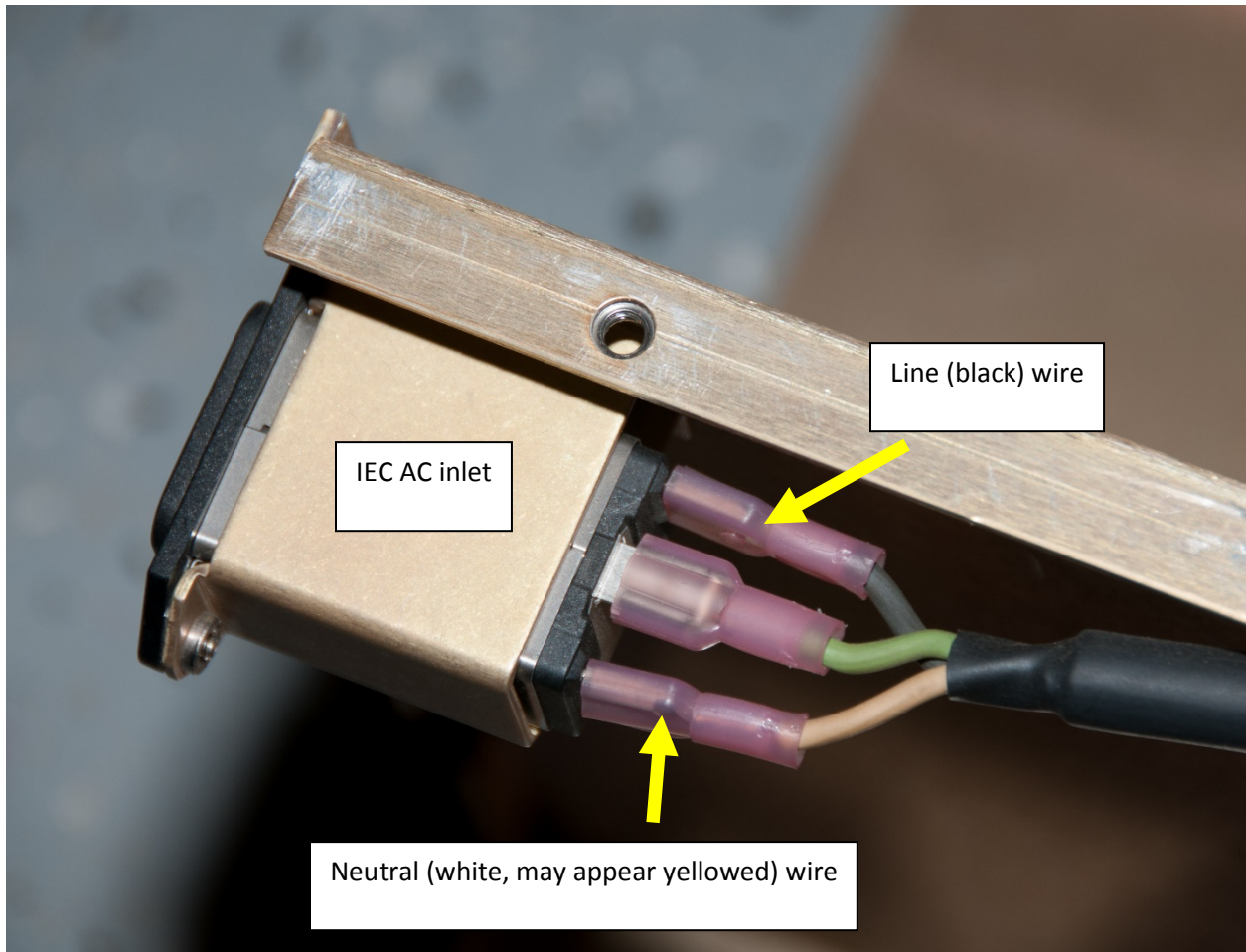


Fig. 3 – IEC AC Inlet at the rear of the MFA2PA **BEFORE** the wires are switched.