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Sienna Construction Note

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Tx jumpers labeled wrong

Problem: 10W transmitter finals burn out as soon as the Tx is powered on.

Cause: The 10W transmitter has the ability to use final amplifier transistors with either a Base-Emitter-Collector (BEC) or Base-Collector-Emitter (BCE) configuration. The board is laid out to accept jumpers located near the transistors. However, the silkscreened legends are labeled backwards.

Solution: Ignore the text on the board and install the jumpers as described in the Rev B manual. The two transistor types we are shipping are the 2SC1945 (BEC configuration) and the 2SC1969 (BCE configuration). Therefore, despite what the text on the board says, install the jumpers as follows:

2SC1945: a-2a, b-3

2SC1969: a-3, b-2b

Do this on both sets of jumpers (two jumpers for each transistor).

We would also recommend that you hand label a small Avery label like this:

BEC

BCE

Make the label as small as possible and stick it over the existing text on the board.