



LOUD Technologies Inc.

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Subject: SWA 1501 Amplifier Service Bulletin

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Revision History:

6/04/2008	Initial Draft
	First Revision
	Second Revision
12/10/2008	Third Revision, Scott Paterson

Affected Products

SWA 1501 [All serial numbers]

Failure Description

SWA 1501 amplifier section, failing multiple times in short timeframes. Units fail to pass signal and sometimes actually emit smoke.

Cause

The misprinting of reference designators **D19** (zener diode P/N: 82131050) and **D20** (BAV21 diode P/N: 82112002) on the printed circuit board causes the problem, as the two locations numbers are swapped on the silkscreen. The correct components are being oriented correctly, but end up being in the wrong place. The picture below is an example of the INCORRECT silk screen. The CORRECT silkscreen sequence will be: R27, R28, R29, D19, D20, R30, D21 etc..

Action

When an SWA 1501 is being repaired for any reason, please look at the amplifier assembly and specifically at locations **D19** and **D20**. If the locations are reversed from the schematics, install zener diode P/N: 82131050 in **D20** and install BAV21 diode P/N: 82112002 in **D19**.

Simplification

The location next to R29 should have the Zener diode P/N: 82131050 installed.
The location next to R30 should have the BAV21 diode P/N: 82112002 installed.
Orientations are indicated by the silk screen, as this is correct.

