

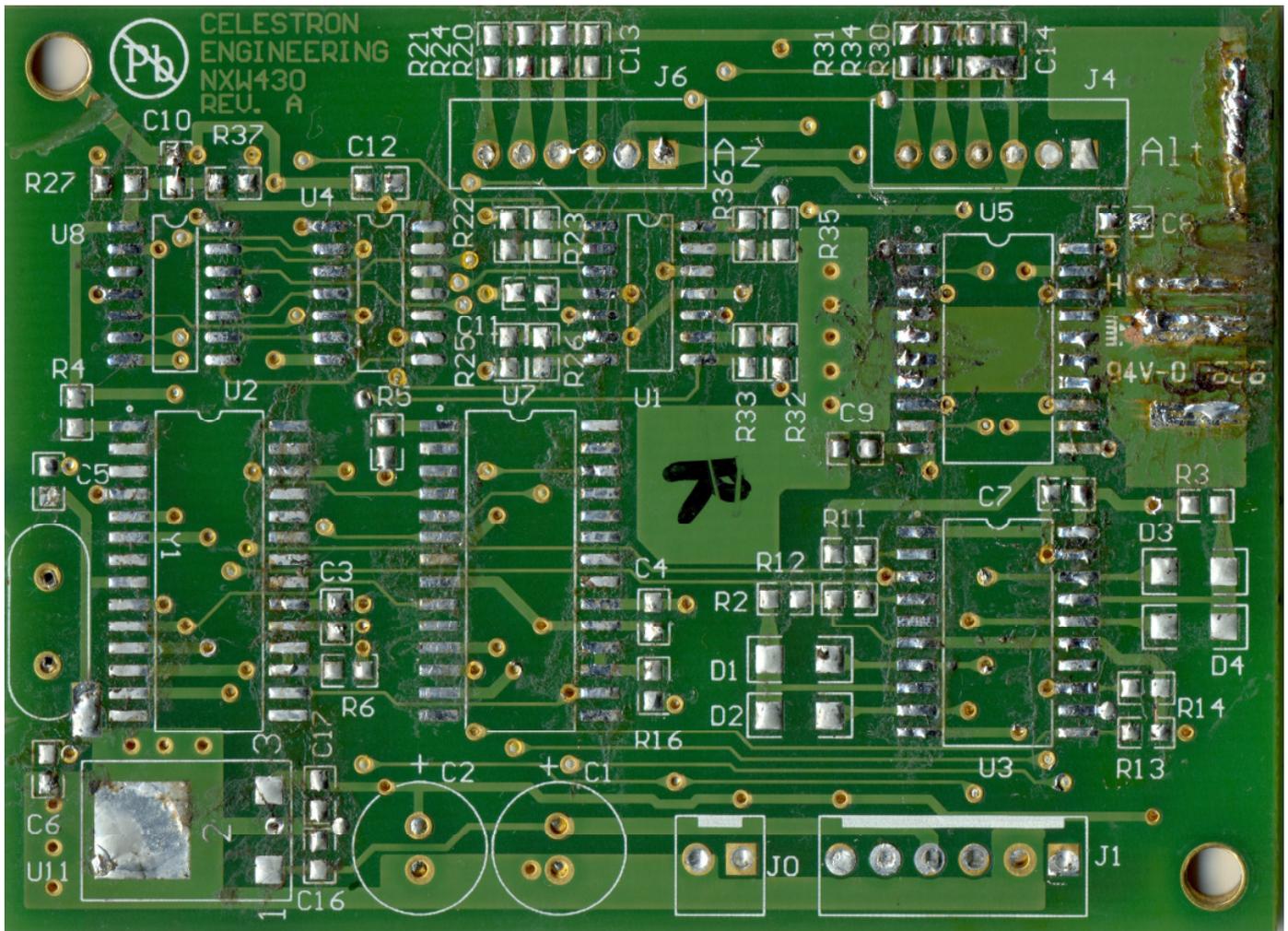
Schematic of a NexStar SLT102 motor control board

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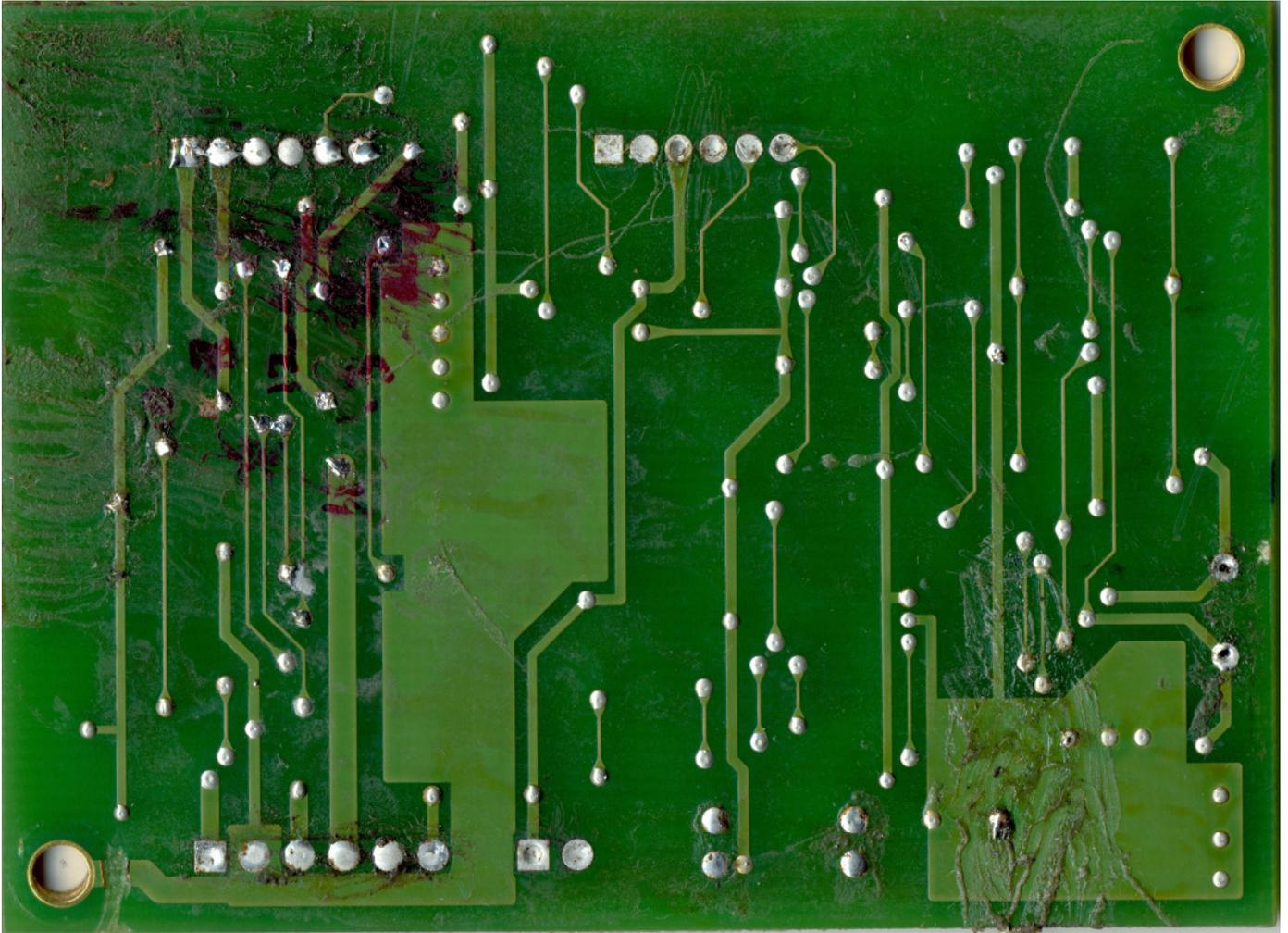
Muskar M. Sumadilaga (compiled by Matthias Bopp)

Muskar M. Sumadilaga had problems with some destroyed electrical components on his NexStar SLT102 motor control board. Most likely they were damaged by the azimuth bearings having been too tight which created an overload in the motor and overstress to the electronic driver components. While he replaced the defective motor control board he decided to analyze the defective board before discarding it.

Here are pictures of his motor control board (NXW430 Rev.A) after he had disassembled the components:



Motor control board top view



Motor control board bottom view

Muskar also did a nice job extracting the schematic of the motor control board. You will find the schematic on the next page. Please note that the schematic was not verified so we cannot be 100% sure that it is completely error free. In any case I am sure it can be helpful for other NexStar users who might face problems and need to debug their electronics.

Many thanks to Muskar M. Sumadilaga for sharing his excellent work with us.

Comments and questions are always welcome, please send them to the Email address given below.

Best regards

Matthias

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