

ST200 Hardware Modifications

Purpose of this document

This document concerns the **ST200 hardware delivered before July 15, 2011**.

You may check, if your hardware needs to be adapted by comparing it with the picture below.

Since never versions of K-MC1, K-MC3 and K-MC4 allow a VCO input voltage up to 10V, ST200 may need hardware modifications to support this feature.

To find out your K-MCx version, please refer to the change letter

http://rfbeam.ch/fileadmin/downloads/datasheets/ChangeLetter1-MC1_MC3_MC4.pdf

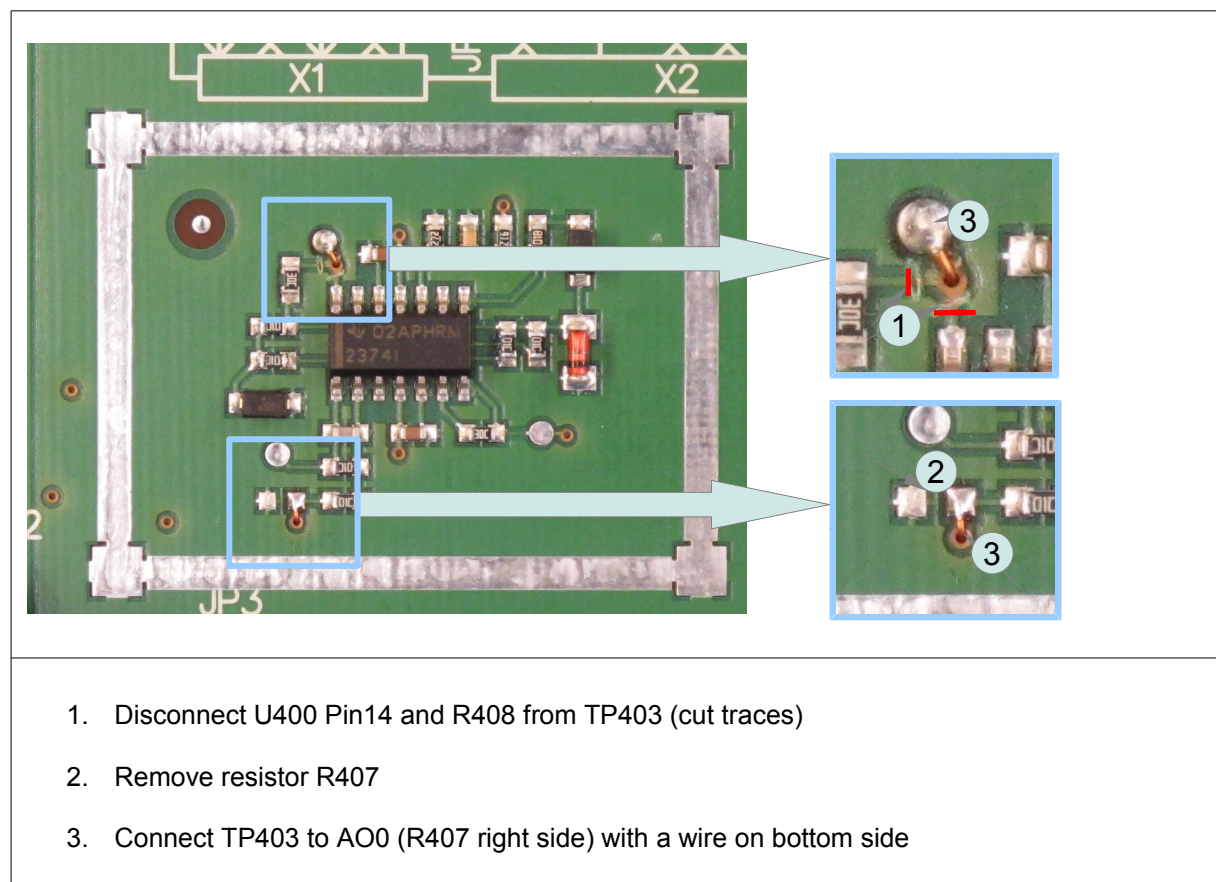
The older sensor versions are still supported after this modification.

In addition to reduce noise and improve stability the -5V supply can be adjusted. This optional hardware modifications are described on page 2.

Modifications

VCO output voltage up to 10V

This modifications break the 5V limitation of the VCO output and allow voltages up to 10V for MC-Modules.

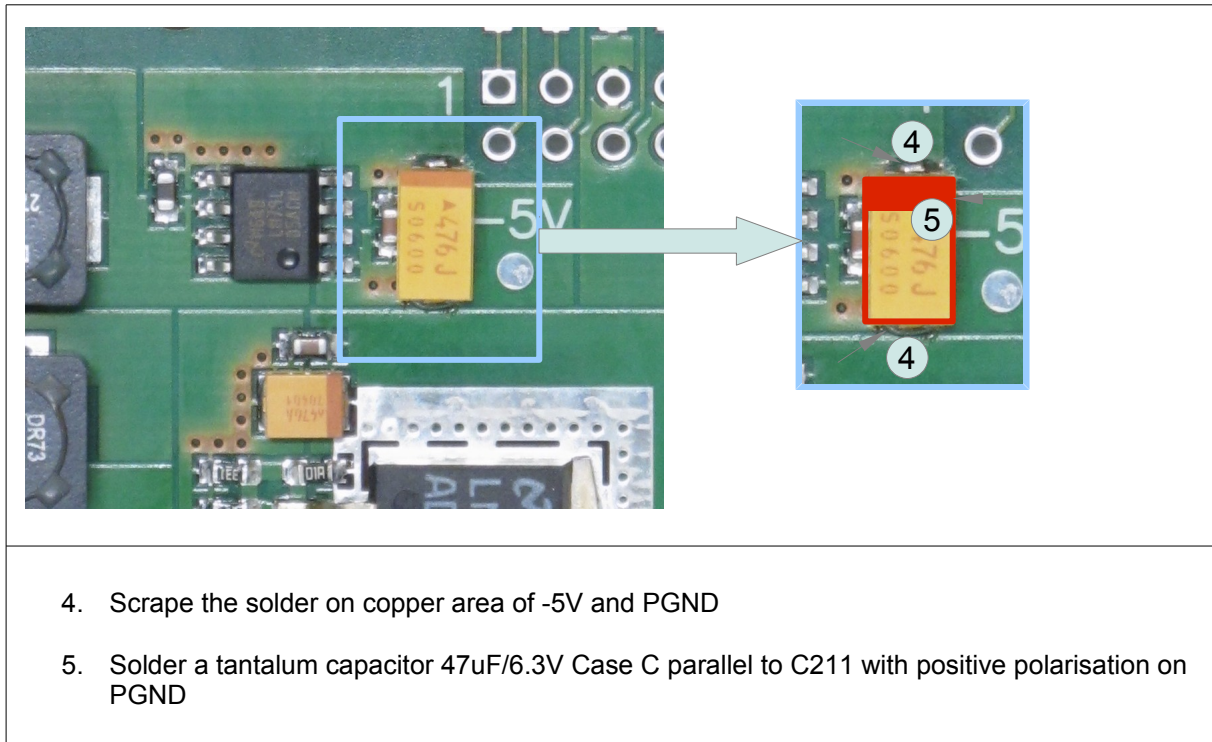


ST200 Hardware Modifications

Enhanced -5V supply (optional)

During FMCW operation, some noise may be visible in the time domain display. This can be avoided by adding the following capacitor.

The outcome of following modifications are noise reduction and more stability of the -5V supply.



Version History

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|------|------------|-----------------|
| V1.0 | 2011-09-29 | Initial release |
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