



Fox Delta

Amateur Radio Projects & Kits

FD-ST2-USB

[ST2 FW Info Doc: PIC16F876A Firmware Mod/Update V1.2 by Alex / KR1ST](#)



[Fox Delta ST2 PIC16F876A FW v1.2 CONFIG Mods by Alex / KR1ST](#)

The LVBTracker firmware (V0.7) that the Fox Delta utilizes, only allows for two calibration points, a minimum and a maximum, and together with the rotation degrees range information (360 or 450 degrees) it calculates in what position the rotator is in given a certain voltage. That probably works fine for most rotators, but it wasn't sufficient for my modified rotator controller.

[This modified FW \(V1.20\) for PIC16F876A will allow for calibration points at 0, 90, 180, 270, and 360 degrees. The images below show what the calibration procedure looks like.](#)

CONFIG SCREEN SHOTS:





Save CONFIG Values & Exit

The calibration procedure can be started by pressing one of the front panel buttons on the controller while turning it on.