# Secondary Calibration for Smart Control trainers (iOS)

Your Smart Control Power Unit will be most accurate if you perform a secondary calibration to pinpoint your unique brake offset. Brake offset is a calibration number that defines the power curve specifically to each resistance unit. It may be handy to have a pen and paper ready to write down your brake calibration number for future reference, this calibration should only need to be performed once.

1. In your general phone settings, scroll down to "Kinetic," open and toggle on "Debug Controls."
2. Plug in Smart Control RU and pair with app in Sensors by selecting the green chain link icon to the right of the Smart Control ID listing.
3. Select gear icon directly below green chain link icon to enter sensor settings menu.
4. Select "Calibrate" to perform a primary calibration to set the tire/ roller resistance. You need to achieve a spindown time of 6 to 7 seconds for all of this to work properly. **NOTES:** primary calibrations are typically done after a warmup, but for this calibration go through this process without a warmup. All internal controls are turned off during calibration, so the trainer may rattle. The rattling will stop after the calibration.
5. Once successfully calibrated, scroll down below "Update Firmware" button to "Extended Settings" and select "Brake Calibration."
6. Accelerate to 28mph, and coast when prompted.
7. Write down "Current Brake Offset" number. **NOTE:** we recommend writing the number on a bit of masking tape stuck to the resistance unit for future reference should the Fit app fail to retain this setting.
8. Make sure that the Offset number is correctly displaying the Brake Calibration Offset number based on the result of this test (stock numbers are 55/100).*
9. Test ride the new brake offset in a workout (Kinetic Fit app, Zwift, TrainerRoad) and compare data to a Power Meter if possible.

*BUG NOTE (3-21-17): Brake Offset number may not stick in app when trainer is power cycled. Check Brake Offset before you work out to be sure the Offset number is the one achieved in the test. Reset it manually if not. (Development team is checking into this.)