

How to calibrate your clock.

This document describes the possible ways on how to adjust your clock to the best running accuracy if you have bought this clock as a kit and have assembled it yourself.

When you have soldered and successfully tested your clock, you would prefer your clock running to its best accuracy. To do so, you have to adjust red trim capacitor.

We would recommend you to do it when your clock is on and running for minimum half an hour and located in the room, where its place will be.

Below procedure is common for all our clocks we have designed. The only difference you could find is the test frequency output connector on the clock board.

Please read User Manual to find out the Test frequency contact on your clock board.

To do calibration there are two ways to go:

1. Connect ground and test frequency output contacts to calibrated and good accuracy Frequency Counter. Put clock in to the Test Frequency Mode in accordance to your clock User Manual (usually just push and hold 2 buttons together for about 5 -7 seconds) and using trim capacitor adjust clock frequency to exact 200kHz (200000Hz)

Please note,

That all our clocks, except IV-11 clock, generate 200kHz square wave signal on the Test Frequency output pin.

But IV-11 clock generates 400kHz square wave signal on the Test Frequency output pin.

2. Another way to calibrate your clock is to check on the few days/one week interval, if clock is running faster or slower than it should be and adjust red trim capacitor. Check the clock time within next few days and make another adjustment Please repeat this procedure until you are happy with clock accuracy.

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