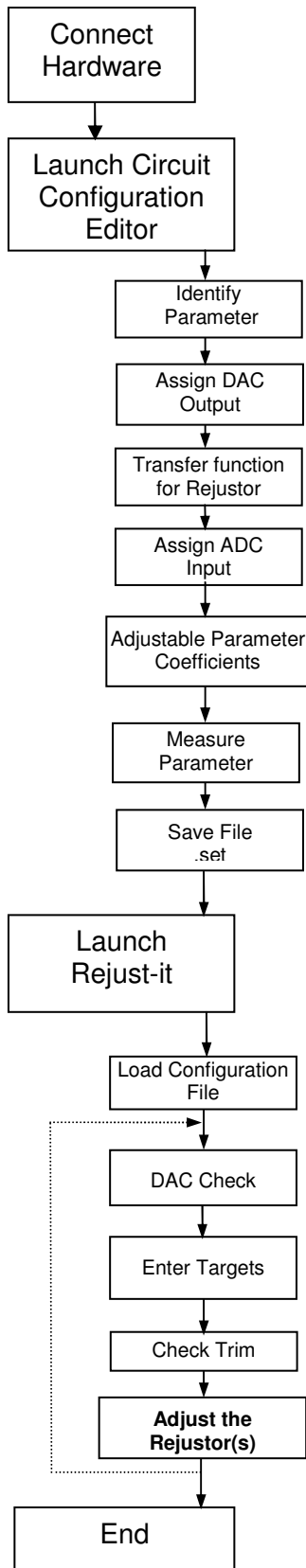


Getting Started – Calibration Process Overview



Connect MBK-408 (User Manual Section 4)

1. Connect USB port from the MBK-408 to the host computer
2. Connect transformer and apply power to the MBK-408
3. Connect *Rejistor* circuit to DB26 connector

Launch the Circuit Configuration Editor (User Manual Section 5)

The configuration editor is used to enter the parameters that affect the circuit to be calibrated, such as the number of *Rejistor*s being adjusted. The Circuit configuration editor creates a “.set” file specific to a circuit type.

- The output of the *Rejistor* circuit can be monitored by one or more adjustable parameters. The *Rejistor* is identified a single or divider.
- The DAC channel on the MBK-408 drives the auxiliary pins on the *Rejistor*
- The transfer function coefficients table relates a percentage change in the resistance of the *Rejistor* to the expected value of the adjustable parameter
- Assign the ADC channel(s) on the MBK-408 that monitor the output for the circuit with the *Rejistor*
- Click “How to Measure Parameter”. Enter the parameters for the equation that identifies how Rejust-it transforms the measured value at the ADC to the adjustable parameter.
- With the circuit connected and powered, measure the adjustable parameter to verify it is within the expected range of values
- Save the “.set” file. Only one “.set” file is required for each circuit configuration being calibrated.

Launch Rejust-it (User Manual Section 6, 7 and 8)

Rejust-it is Microbridge Technologies’ software to adjust *Rejistor*s in circuit. It requires a “.set” file that describes the circuit. Rejust-it verifies the connections through the MBK-408 and adjusts *Rejistor*(s) to achieve the user-entered target value.

- Load the configuration file (“.set”) created with the Circuit Configuration Editor for the circuit being calibrated
- Select the Adjustable parameter and the output DAC channel. Execute a DAC Check to verify connections. The result must be a square wave.
- Enter the target value, precision (and pre-trim for dividers) for the adjustable parameter
- Verify the parameters for the *Rejistor* required to achieve the target
- Adjust the *Rejistor*(s)

The results can be verified with Rejust-it. In a production environment the next assembly would be connected to the MBK-408 *Rejistor* Calibration Tool. Since the configuration file is already loaded, the process can restart at DAC check.