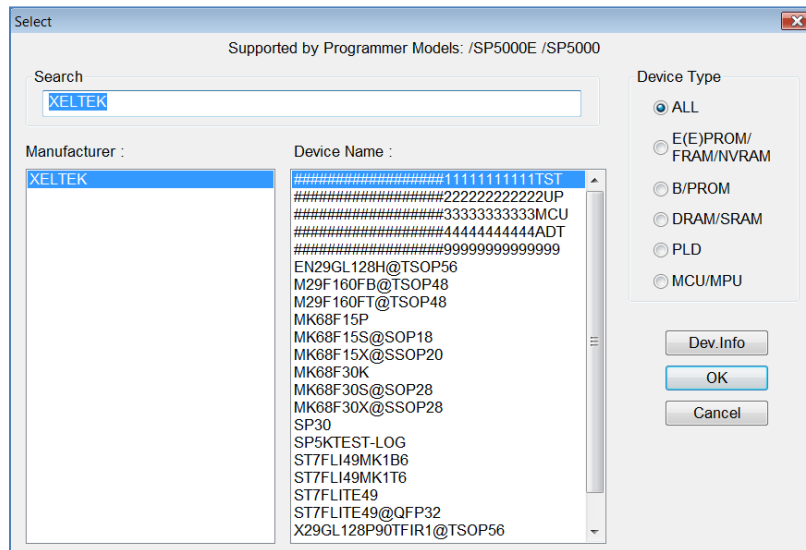


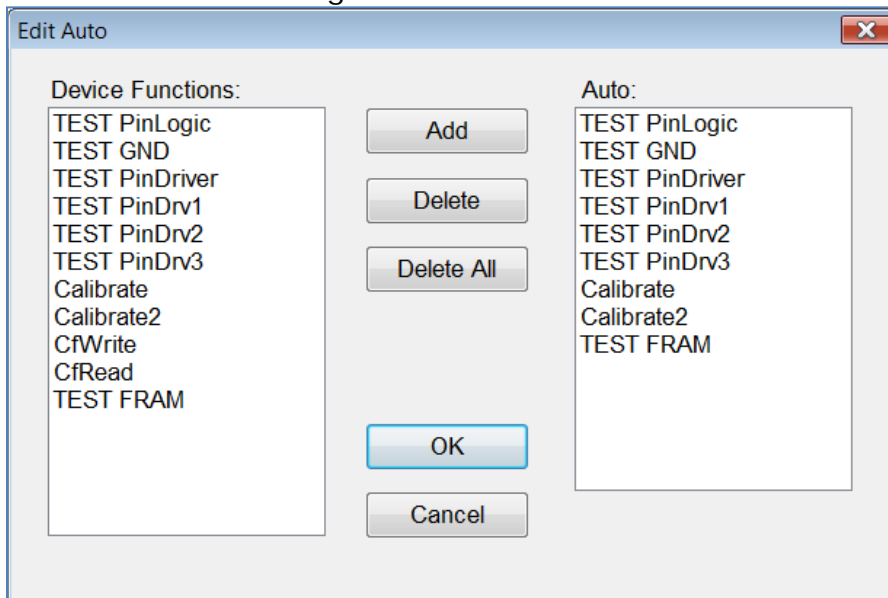
## SuperPro 5000 Hardware Self-test Procedure

- 1) Save the attached **sp5k\_st.USB** file to **C:\SP5000\algo1**.
- 2) Type "Xeltek" under search when choosing a device in the software.
- 3) Select "**#####..111...TST**" under **Device Name**.



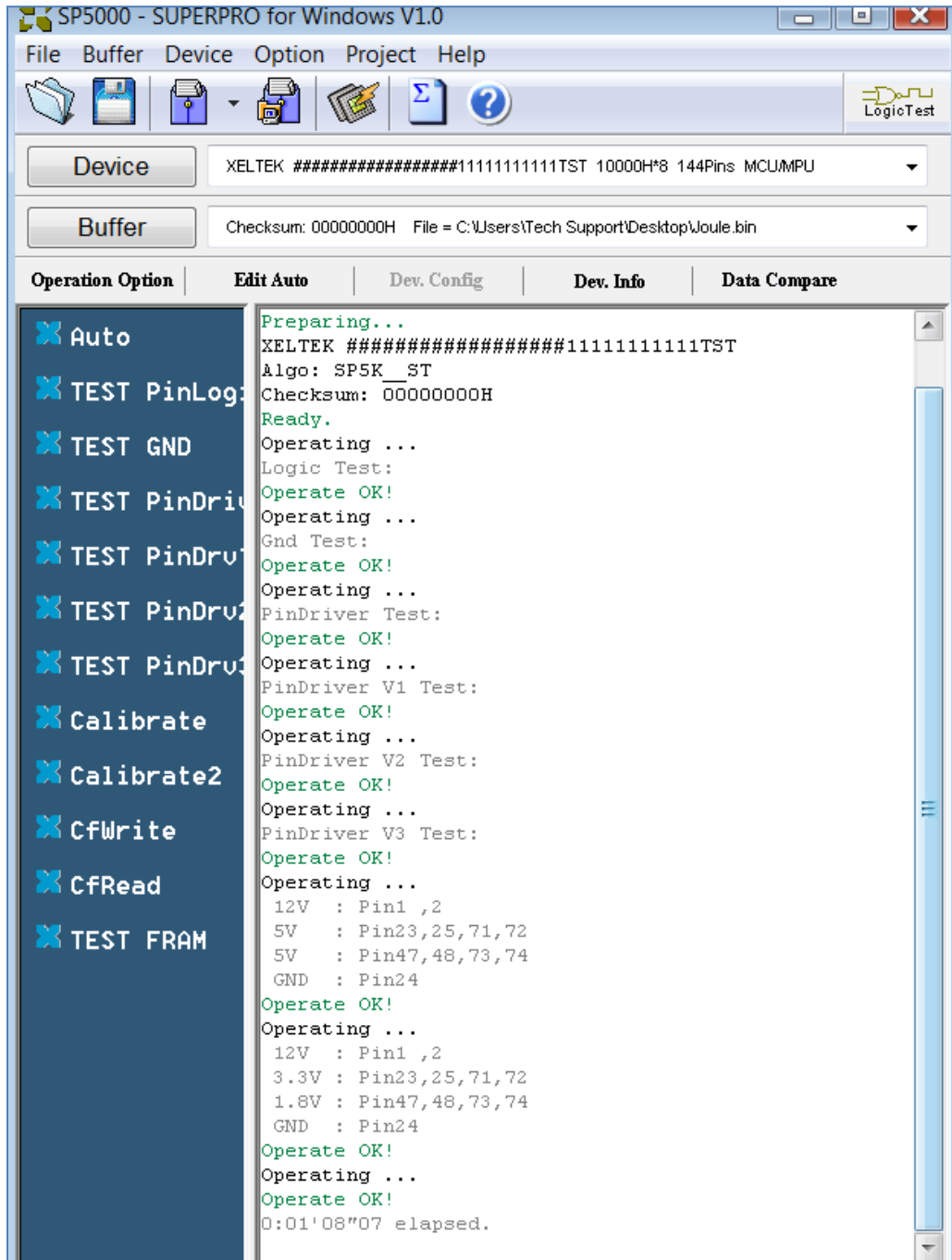
**Figure 1:** Screenshot of the Setting after choosing a device.

- 4) Modify "**Edit Auto**" as shown in Figure 2.



**Figure 2:** Edit Auto window.

- 5) Insert Zif48 (CX0001) socket adapter into the programmer module.
- 6) Run "Auto" without chips or other sockets installed on the programmer (only CX0001 (DIP48) socket should be installed).
- 7) Running "Auto" should yield the result in Figure 3, otherwise SuperPro5000 has a problem.



**Figure 3:** \*Make sure there are no numbers below each Pin-Driver Test even if result shows "Operation OK!".

- 8) Measure calibration test voltages at **Pin1, Pin2, Pin23, Pin25, Pin47** and **Pin48** with a multi-meter. **Pin24** is GND.

	Pin	Calibrated Voltage	Tolerance
VP1	Pin 1 and Pin 2,	12.0 V	+/- 0.2V
VP2	Pin 23, Pin 25, Pin 47, and Pin48	5.0 V	+/- 0.2V

**Table 1:** Voltage Calibration

	Pin	Calibrated Voltage	Tolerance
VP3	Pin 23 and Pin 25,	3.3 V	+/- 0.2V
VP4	Pin 47, and Pin48	1.8 V	+/- 0.2V

**Table 2:** Voltage Calibration 2

- 9) Send [Xeltek](#) the test result screenshot.