

SNO	Action	Outcome
		LED - uploading.
#	<u>Board NO.1</u>	
1	check in schematic design all connections from/to based on Neil sketch board. ✓	NOT working.
2	using multimeter: check connections between all elements PINS as per sch. are connected (ex: MDC1 Microcontroller to MDC1 AVR....etc) ✓	NOT working.
3	over soldering on all elements in case one element is loose. ✓	NOT working.
4	Test by multimeter that each pin of Micro controller is Not shorted with any other pin of Micro controller. ✓	NOT working.
5	Test by Multimeter that that that AVR pins are Not shorted with each other. ✓	NOT working.
6	use process of isolation: Laptop, programmer and the jumper cable is used to programme another circuit board. the so issue from my circuit board. ✓	NOT working.
7	I changed My Microcontroller, Resonator, LED, capacitor.	NOT working.
8	When I connect to programmer, LED glow and PBo, PBI Vcc and GND all shorted. "only when connected to power"	
9	I removed Microcontroller found small threads, I removed them, removed cleaned under Resonator, removed Pins and cleaned, removed 10K Ω and capacitor cleaned and reconnected. connect to USB programmer, LED Not glowing PBo Not shorted anymore. PBI is shorted "it seem faintly started" Vcc and GND	Solved.
10	Volt is 3v over LED Resistor.	
	<u>Board NO.2:</u>	
①	upload program infinite on/off LED for one second	works
②	upload switch + LED program "without removing circuit board" error connection error, LED always glowing.	NOT working