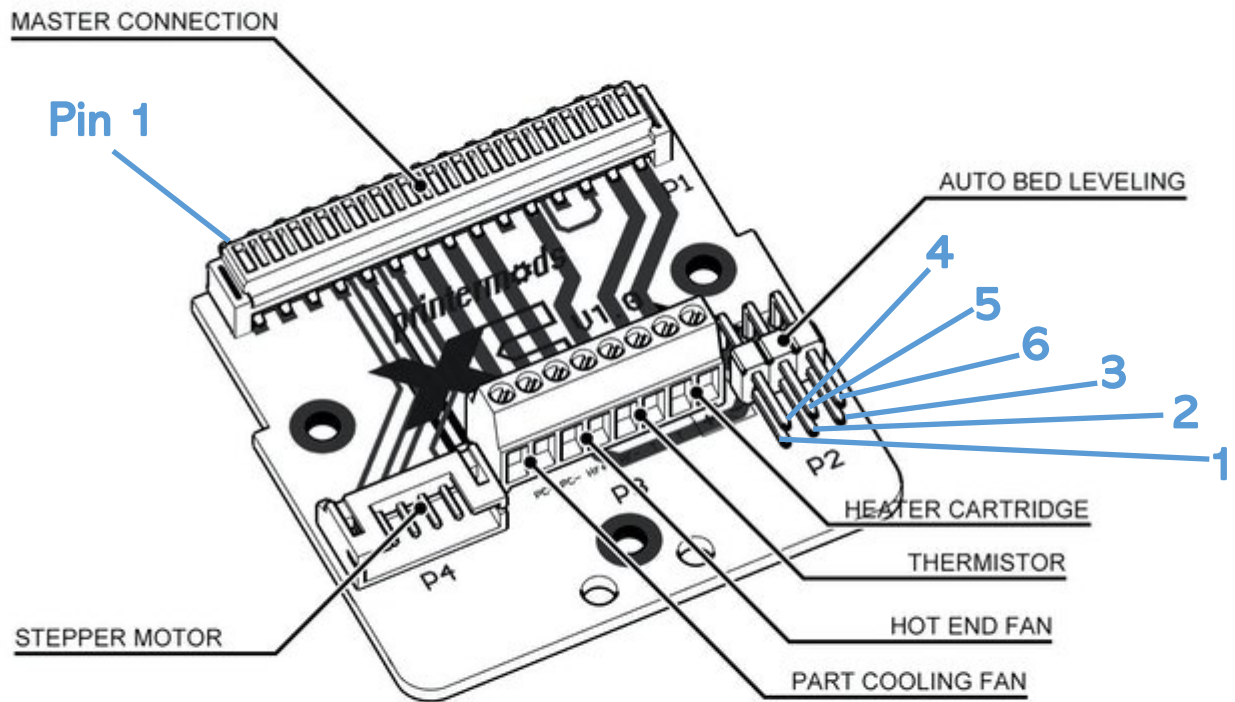
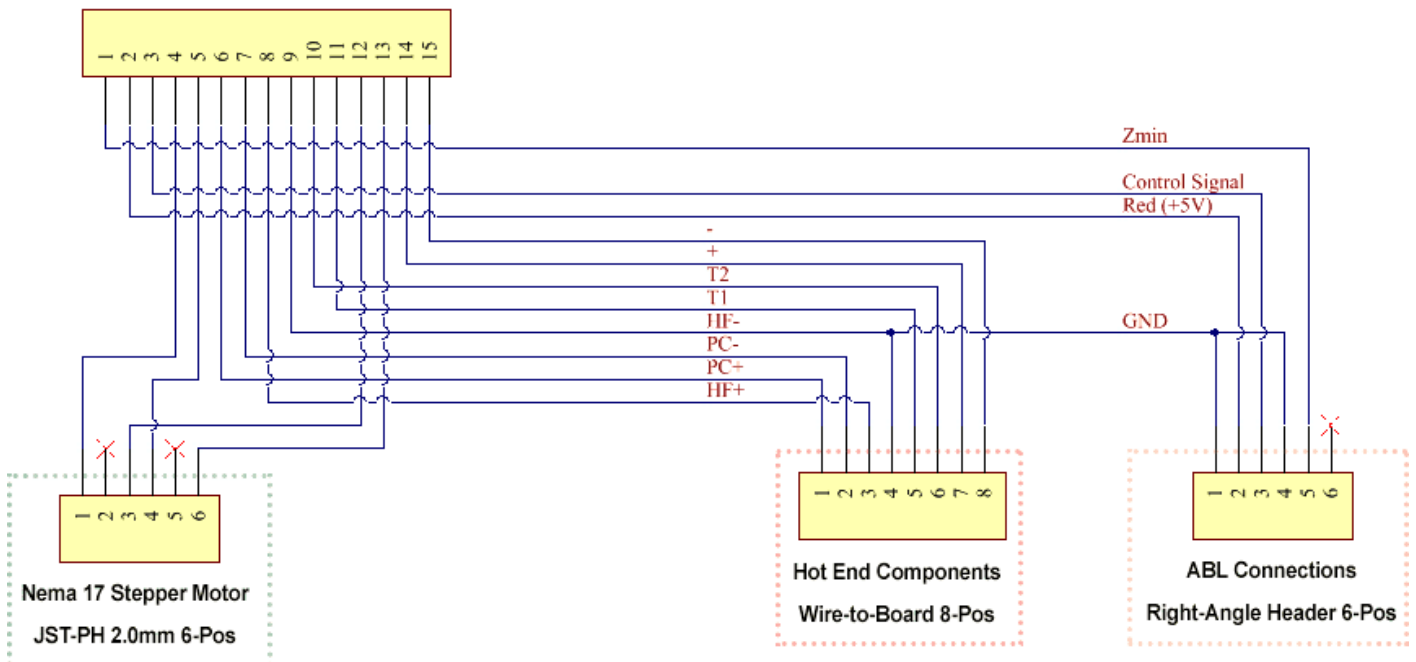


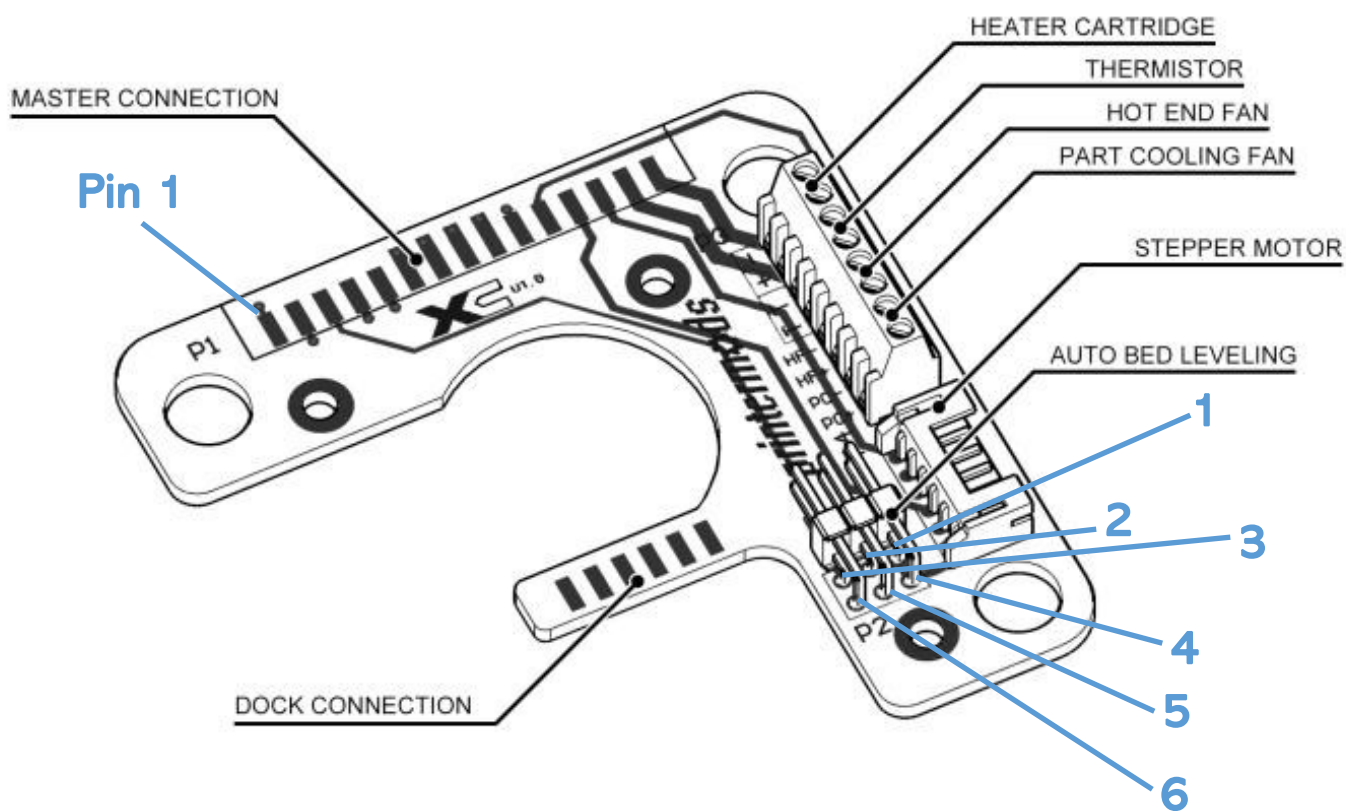
# Master PCB



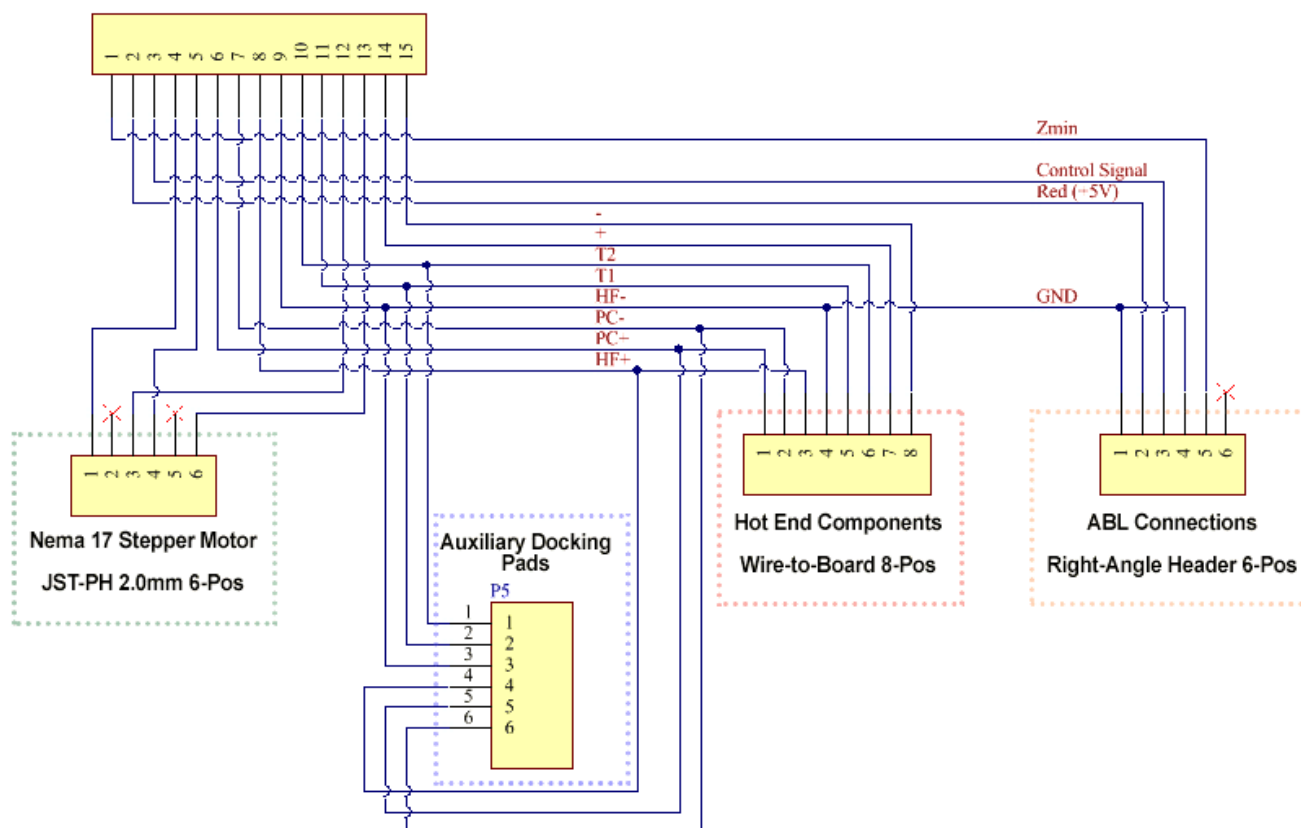
Connection to Tool Assembly 15-Pos



# Tool PCB



### Connection to Master Assembly 15-Pos



Pin	Label	Purpose	Wire	Comment
Stepper 1		Stepper Motor Connector	Often Red	
Stepper 2		Stepper Motor Connector		Non-connected pin
Stepper 3		Stepper Motor Connector	Often Black	
Stepper 4		Stepper Motor Connector	Often Blue	
Stepper 5		Stepper Motor Connector		Non-connected pin
Stepper 6		Stepper Motor Connector	Often Green	
Hot End 1	PC+	Part Cooling Fan +	Often Red	Polarity (+/-) matters
Hot End 2	PC-	Part Cooling Fan -	Often Black	Polarity (+/-) matters
Hot End 3	HF+	Hot End Fan +	Often Red (Creality often Yellow)	Polarity (+/-) matters
Hot End 4	HF-	Hot End Fan -	Often Black (Creality often Blue)	<b>Shared Ground Pin!</b> Polarity (+/-) matters
Hot End 5	T1	Temperature Sensor	Often White	Polarity usually does not matter
Hot End 6	T2	Temperature Sensor	Often White	Polarity usually does not matter
Hot End 7	+	Heater +	Often Red	Polarity usually does not matter
Hot End 8	-	Heater -	Often Red	Polarity usually does not matter
ABL 1	GND	Auto Bed Level -	Often Brown	<b>Shared Ground Pin!</b> Polarity (+/-) matters
ABL 2	+5V	Auto Bed Level +	Often Red	Polarity (+/-) matters
ABL 3	Control	Auto Bed Level Control	Often Yellow	Polarity (+/-) matters
ABL 4	GND	Auto Bed Level -	Often Black	<b>Shared Ground Pin!</b> Polarity (+/-) matters
ABL 5	Zmin	Auto Bed Level Endstop	Often White	Polarity (+/-) matters
ABL 6		Auto Bed Level		Non-connected pin

### **Notes:**

- Some boards may require the ABL/BLTouch Zmin pin to be wired 'in reverse'. Please mind the shared ground pins on XChange and apply a voltage to these pins which may result in damage of electrical components
- The shared ground pins require great care in case one would want to make the Hot End Fan controllable/switchable. Switching or sending modulated signals through the shared ground pins may result in damage of electrical components

### **Credits:**

These diagrams apply to Printermods XChange V1.0

Original files from

<https://github.com/printermods/xchange/blob/main/XChange%20V1.0%20-%20Wiring%20Diagrams.pdf>

Version: Latest commit 42383b0 on 17 Jun 2021