

Tool on extruder toolhead	Polarity or function	Cable connector number on toolhead OLD	Cable connector color OLD	Cable connector number on boardside (solder side under) OLD	Cable connector number on toolhead NEW	Cable connector color NEW	Cable connector number on boardside (solder side under) NEW	Cable destination on boardside			
Heater1	none	2 & 3	Red & Orange	17 red & 2orange	3	Orange	2	PWM heater 1 POSITIVE			
	none	11	Black thick	18	11	Black thick	18	PWM heater 1 MINUS			
Extruder fans L&R	Positive	2 & 3	Red & Orange	17 red & 2orange	3	Orange	2	Extruder fans POSITIVE 24V			
	Negative	1 & 4	Purple & Yellow thick	15	1 & 4	Purple & Yellow thick	15	Extruder fans PWM (-)			
Hotend temp sensor 1	none	10	White	14	10	White	14	Hotend 1 sensor (+)			
	none	9	Brown	6	9	Brown	6	Hotend sensor (-)			
fans (to be) printed part L&R	Positive	2 & 3	Red & Orange	17 red & 2orange	3	Orange	2	Object fans POSITIVE 24V			
	Negative	12	Green	9	12	Green	9	Object fans PWM (-)			
Bltouch	Switch GND	9	Brown	6	9	Brown	6	Sensor pin GND			
	Switch contact	6	Blue	11	6	Blue	11	Sensor pin Contact			
	PWM	5	Grey	8	5	Grey	8	Breakout connector pin Heater 3			
	VCC 5V	8	Yellow thin	7	8	Yellow thin	7	Board 5V			
	GND	9	Brown	6	9	Brown	6	Board GND			
connected to 9	Extra	7	Black thin	5	7	not used in old situation	5				
Heater2	none	None		EXISTS	3	Orange	17	Heater 2 POSITIVE 24V			
	none	cut loose pin 2 on rear of connector on toolhead (from pin 3)		NEW	2	Red	6	PWM heater 2 MINUS			
Hotend temp sensor 2	none	cut loose pin 12 on rear of connector on toolhead		NEW	9	Black thin	5	Hotend 2 sensor (+)			
	none	None		EXISTS	10	Brown	6	Hotend sensor 2 (-) GND			
Toolhead side					Board side						
PWM extruder fan -	Purple	1	12	Green	PWM part fan -	NC	1	18	Black thick	PWM H1 (-)	
PWM Heater 2 - 24V (+)	Red	2	11	Black thick	PMW Heater 1- PT100	24V +	Orange	2	17	Red	PWM H2 (-)
Not (yet) used	Orange	3	10	White	GND/MASS 0V	Not (yet) used	NC	3	16	NC	
BLT Orange	Yellow thick	4 (conn to 1)	9	Brown	BLT Red	E0 sens (+)	Yellow thick	4	15	Purple	fan1 (-)
BLT White	Grey	5	8	Yellow thin	E1 NTC sens +	Gnd (PSU -) 0 Volt	Black thin	5	14	White	PT100 brd
	Blue	6	7	Black thin		5V	Brown	6	13	NC	
						exp.pin 8= Heater3	Yellow thin	7	12	NC	
						fan0 (-)	Grey	8	11	Blue	Sensor pin
							Green	9	10	NC	
SET FOR MIXING EXTRUDER TOOLHEAD SIDE (1 heater, 1 NTC or PT100)											
extruder fan -	Purple	1	12	Green	part fan -						
24V (+)	Red	2	11	Black thick	PMW H1-						
	Orange	3	10	White	PT100 or use 7						
	Yellow thick	4 (conn to 1)	9	Brown	GND/MASS 0V						
BLT Orange	Grey	5	8	Yellow thin	BLT Red						
BLT White	Blue	6	7	Black thin	E0 NTC or use 10						