



## Default Firmware Settings for Correct Motor Behaviour

Please report it to us then try to either power-cycle the board or reset it back to the Firmware defaults by sending the "\$RST=\$" command in the console or click Restore Defaults

0 Motors	<b>Step pulse time</b>	5	microseconds
1 Motors	<b>Step idle delay</b> Sets a short hold delay when stopping to let dynamics settle before disabling steppers. Value 255 keeps motors enabled.	255	milliseconds
2 Motors	<b>Step pulse invert</b> Inverts the step signals (active low).	X: <input type="checkbox"/> Y: <input type="checkbox"/> Z: <input type="checkbox"/> A: <input type="checkbox"/>	
3 Motors	<b>Step direction invert</b> Inverts the direction signals (active low).	X: <input type="checkbox"/> Y: <input checked="" type="checkbox"/> Z: <input checked="" type="checkbox"/> A: <input type="checkbox"/>	
4 Motors	<b>Invert stepper enable pin(s)</b> Inverts the stepper driver enable signals. Most drivers uses active low enable requiring inversion.  NOTE: If the stepper drivers shares the same enable signal only X is used.	X: <input type="checkbox"/> Y: <input type="checkbox"/> Z: <input type="checkbox"/> A: <input type="checkbox"/>	
8 Motors	<b>Ganged axes direction invert</b> Inverts the direction signals for the second motor used for ganged axes.  NOTE: This inversion will be applied in addition to the inversion from setting \$3.	Y-Axis: <input type="checkbox"/>	

29

Motors

**Pulse delay**

Step pulse delay.

Normally leave this at 0 as there is an implicit delay on direction changes when AMASS is active.

0

microseconds

37

Motors

**Steppers deenergize**

Specifies which steppers not to disable when stopped.

X: Y: Z: A: 

100

X-axis

**X-axis travel resolution**

Travel resolution in steps per millimeter.

320

step/mm

101

Y-axis

**Y-axis travel resolution**

Travel resolution in steps per millimeter.

320

step/mm

102

Z-axis

**Z-axis travel resolution**

Travel resolution in steps per millimeter.

200

step/mm

110

X-axis

**X-axis maximum rate**

Maximum rate. Used as G0 rapid rate.

15000

mm/min

111

Y-axis

**Y-axis maximum rate**

Maximum rate. Used as G0 rapid rate.

15000

mm/min

112

Z-axis

**Z-axis maximum rate**

Maximum rate. Used as G0 rapid rate.

6000

mm/min

120

X-axis

**X-axis acceleration**

Acceleration. Used for motion planning to not exceed motor torque and lose steps.

1500

mm/sec<sup>2</sup>

121

Y-axis

**Y-axis acceleration**

Acceleration. Used for motion planning to not exceed motor torque and lose steps.

1500

mm/sec<sup>2</sup>

122

Z-axis

**Z-axis acceleration**

Acceleration. Used for motion planning to not exceed motor torque and lose steps.

1500

mm/sec<sup>2</sup>