

GRBL ERROR LIST

Error:1	G-code words consist of a letter and a value. Letter was not found.	Error:36	There are unused, leftover G-code words that aren't used by any command in the block.
Error:2	Numeric value format is not valid or missing an expected value.	Error:37	The G43.1 dynamic tool length offset command cannot apply an offset to an axis other than its configured axis. The Grbl default axis is the Z-axis.
Error:3	Grbl '\$' system command was not recognized or supported.	Error:38	An invalid tool number sent to the parser
Error:4	Negative value received for an expected positive value.		
Error:5	Homing cycle is not enabled via settings.		
Error:6	Minimum step pulse time must be greater than 3usec		
Error:7	EEPROM read failed. Reset and restored to default values.		
Error:8	Grbl '\$' command cannot be used unless Grbl is IDLE. Ensures smooth operation during a job.		
Error:9	G-code locked out during alarm or jog state		
Error:10	Soft limits cannot be enabled without homing also enabled.	ALARM:1	Hard limit triggered. Machine position is likely lost due to sudden and immediate halt. Re-homing is highly recommended.
Error:11	Max characters per line exceeded. Line was not processed and executed.	ALARM:2	G-code motion target exceeds machine travel. Machine position safely retained. Alarm may be unlocked.
Error:12	(Compile Option) Grbl '\$' setting value exceeds the maximum step rate supported.	ALARM:3	Reset while in motion. Grbl cannot guarantee position. Lost steps are likely. Re-homing is highly recommended.
Error:13	Safety door detected as opened and door state initiated.	ALARM:4	Probe fail. The probe is not in the expected initial state before starting probe cycle, where G38.2 and G38.3 is not triggered and G38.4 and G38.5 is triggered.
Error:14	(Grbl-Mega Only) Build info or startup line exceeded EEPROM line length limit.	ALARM:5	Probe fail. Probe did not contact the workpiece within the programmed travel for G38.2 and G38.4.
Error:15	Jog target exceeds machine travel. Command ignored.	ALARM:6	Homing fail. Reset during active homing cycle.
Error:16	Jog command with no '=' or contains prohibited g-code.	ALARM:7	Homing fail. Safety door was opened during active homing cycle.
Error:20	Unsupported or invalid g-code command found in block.	ALARM:8	Homing fail. Cycle failed to clear limit switch when pulling off. Try increasing pull-off setting or check wiring.
Error:21	More than one g-code command from same modal group found in block.	ALARM:9	Homing fail. Could not find limit switch within search distance. Defined as 1.5 * max_travel on search and 5 * pulloff on locate phases.
Error:22	Feed rate has not yet been set or is undefined.		
Error:23	G-code command in block requires an integer value.		
Error:24	Two G-code commands that both require the use of the XYZ axis words were detected in the block.		
Error:25	A G-code word was repeated in the block.		
Error:26	A G-code command implicitly or explicitly requires XYZ axis words in the block, but none were detected.		
Error:27	N line number value is not within the valid range of 1 - 9,999,999.		
Error:28	A G-code command was sent, but is missing some required P or L value words in the line.	Hold:0	Hold complete. Ready to resume.
Error:29	Grbl supports six work coordinate systems G54-G59. G59.1, G59.2, and G59.3 are not supported.	Hold:1	Hold in-progress. Reset will throw an alarm.
Error:30	The G53 G-code command requires either a G0 seek or G1 feed motion mode to be active. A different motion was active.		
Error:31	There are unused axis words in the block and G80 motion mode cancel is active.		
Error:32	A G2 or G3 arc was commanded but there are no XYZ axis words in the selected plane to trace the arc.	Door:0	Door closed. Ready to resume.
Error:33	The motion command has an invalid target. G2, G3, and G38.2 generates this error, if the arc is impossible to generate or if the probe target is the current position.	Door:1	Machine stopped. Door still ajar. Can't resume until closed.
Error:34	A G2 or G3 arc, traced with the radius definition, had a mathematical error when computing the arc geometry. Try either breaking up the arc into semi-circles or quadrants, or redefine them with the arc offset definition.	Door:2	Door opened. Hold (or parking retract) in-progress. Reset will throw an alarm.
Error:35	A G2 or G3 arc, traced with the offset definition, is missing the IJK offset word in the selected plane to trace the arc.	Door:3	Door closed and resuming. Restoring from park, if applicable. Reset will throw an alarm.