Technical Bulletin **Troubleshooting Error Conditions / Super 88 & Classic**

The Super 88 & Classic Signcutter has preprogrammed error conditions, which are defined by a particular colored light sequence emitted from the keypad error light. The error conditions are as follows:

Error Condition	Description	Possible Cause/Solution	
Blinking Red Twice	Memory Buffer Overrun or a Major Communication Error	Defective RS-232 cable. Damaged RS-232 interface IC on logic board. Defective computer serial port	Replace cable Perform plotter port test from control center software to verify, if fails replace communication chip (102822 IC, RS-232 Interface) Perform computer port test from control center software to verify, if fails replace serial port.
Blinking Red Once	X-Axis Jam	Material jammed into grit shaft. Ceased grit shaft bearing(s). Ceased servo motor. Blown transistor(s) on logic board (Position Q1– Q4) Loose or damaged grit shaft drive pulley. Loose or damaged x-axis servo motor pulley. Loose or striped teeth on x-axis timing belt. Loose set screws on grit shaft assy.	Clear jammed material. Replace grit shaft bearing(s) Manually turn motor shaft, if hard to turn replace servo motor. Test transistor(s) w/ohm meter touching D (drain) & S (source) leads, should read 2.23 mega ohms, replace if reading is less. Inspect pulley for damaged teeth; tighten pulley set screws. Inspect pulley for damaged teeth and replace if needed, tighten pulley set screws. Tighten belt tension, replace if teeth are striped. Check all set screws on grit shaft assy.

Blinking Green Once	Y-Axis Jam	Knife caught on edge of material causing jam. Ceased y-axis transmission bearing(s). Ceased servo motor. Blown transistor(s) on logic board (Position Q5–Q8) Damaged or striped teeth on y-axis drive belt Loose or damaged y-axis transmission motor pulley(s). Loose or striped teeth on y-axis transmission timing belt.	Clear jammed material. Inspect bearing(s) for damage, replace y-axis transmission bearing(s). Manually turn motor shaft, if hard to turn replace servo motor. Test transistor(s) w/ohm meter touching D (drain) & S (source) leads, should read 2.23 mega ohms, replace if reading is dramatically less. Inspect and replace drive belt if needed. Inspect for damage check pulley set screws. Tighten belt tension, replace if teeth are striped.
Alternately Blinking Red/Green	Plotter Language Syntax Error or Major Communication Error	Wrong plotter language. Wrong plotter driver. Wrong data transfer protocol settings for serial port. Bad or corrupted file. File sent before plotter was placed online. Defective computer serial port. Damaged RS-232 interface IC on logic board.	Change plotter language selected in your signmaking software (DMPL or HPGL). Select the driver for Super 88 or Classic in your signmaking software. Check port settings from windows control panel and/or communication settings in your signmaking software (9600 bps, 8 data bits, 1 stop bit, Xon/Xoff or Hardware Handshaking). Recreate file. Abort file, reset plotter power to clear buffer. Perform computer port test from control center software to verify, if fails replace serial port. Perform plotter port test from control center software to verify, if fails replace communication chip (102822 IC, RS-232 Interface).