



Technical Bulletin

Troubleshooting Error Conditions/Ioline 600 & 28

The Ioline 600 & 28 marker plotter 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. Defective computer serial port. Damaged RS-232 interface IC on logic board. | Replace cable. 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) |
| 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. | 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. Loose set screws on grit shaft assy/Check all set screws on grit shaft assy. |

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| <p>Blinking Green Once</p> | <p>Y-Axis Jam or Roll Feed Jam</p> | <p>Knife caught on edge of material causing jam. Ceased y-axis transmission bearing(s).</p> <p>Ceased servo motor.</p> <p>Roll feed transmission mechanical problem.</p> <p>Blown transistor(s) on logic board (Position Q5–Q8)</p> <p>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.</p> | <p>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. Inspect transmission for mechanical problems, replace damaged parts. 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.</p> <p>Tighten belt tension, replace if teeth are striped.</p> |
| <p>Alternately Blinking Red/Green</p> | <p>Plotter Language Syntax Error or Major Communication Error</p> | <p>Wrong plotter language.</p> <p>Wrong plotter driver.</p> <p>Wrong data transfer protocol settings for serial port.</p> <p>Bad or corrupted file. File sent before plotter was placed online Defective computer serial port</p> <p>Damaged RS-232 interface IC on logic board.</p> | <p>Change plotter language selected in your apparel software (DMPL or HPGL). Select the driver for Summit 2200/910 in your apparel software. Check port settings from windows control panel and/or communication settings in your apparel 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)</p> |