

# Alex-Tronix Service Bulletin No. 1, Rev 2, as of 6/26/2007

Controllers: All Agricultural Filter & Field Controllers.

Issue: Surge Protection-- To all Alex-Tronix Customers:

Controllers in the field that are wired to circuitry susceptible to over-voltage and power surge spikes from the AC or DC mains should perform the following procedures to minimize damage to filter and agricultural irrigation controllers:

---

***For 120/240 AC mains connected:***

- 1) Check all main wire connections back to circuit breaker box for clean, tight, good connections. Ground should be connected to a “known” ground point.
- 2) Check all solenoid output connections for clean, tight, good connections. DO NOT GROUND COMMON OUTPUT TERMINAL.
- 3) Install lighting/surge supresser on the AC mains circuit breaker box. The **Delta LA-302** is available through us, and protects everything else connected to the breaker box, i.e. pump, etc. A licensed electrician must install it. It is very good for protection in rural areas.
- 4) **Do not connect controller to two of the legs on a 440VAC system.** This tapped voltage is approximately 140 VAC and will damage the system and or system components. Use a step down transformer from 440 VAC to 120 VAC then feed this into our controller. do not in any way by-pass controller’s internal transformer.

---

***For 12 VDC Connected:***

- 1) Do not use “jumper clamps” on battery to connect controller power. Instead use high quality water tight male/female type connector similarly used on recreational vehicles. Permanently fasten to battery posts using battery cable clamps. Make sure connections are clean and tight.
- 2) Install 12 volt noise suppression kit available from auto parts stores, electronics stores, etc. Ampacity should be at least 3 amps or above.
- 3) Check all solenoid output connections for clean, tight, good connections. DO NOT GROUND COMMON OUTPUT TERMINAL.

---

Our controllers already have limited spike suppression on board, however, I have found that additional noise and spike suppression can help extend the life of the controller quite significantly.

**Questions??? Tech Support: Aram Tokatian 888-224-7630 or 559-276-2888.**

