



Technical Bulletin

Place a copy of this bulletin in the front of each Blueprints Manual.
 Redline drawings as needed and include a TB reference note.
 Reference TB implementation on site Action Item Box-chart and/or
 site tool history management log.

Number: 028
Date Issued: 09/11/03
Expiration Date: 09/11/04

Subject/Key Words:	Loose main power connections may result in equipment failures.		
Classification:	<input type="checkbox"/> Informational	<input checked="" type="checkbox"/> Mandatory	<input type="checkbox"/> Safety Alert
	<input type="checkbox"/> PM Impact	<input checked="" type="checkbox"/> Warranty Impact	<input type="checkbox"/> Purchase Parts
Applicable Akrion Procedures:	HS0067 Akrion Lock-out Tag-out Program		
Parts/Reference Documents:	Ref. Power Plate "D" drawing # 212518 – provided in all Blueprints manuals for GAMA series 3 electrical tower # 212507-001.		
Attachments:	Page 2. Visual reference of hex lugs to be tightened on CB1 and K100		

Issue: Loose hex-lug power bus connections on the main power feed wires (L1, L2, and L3) and input/output lugged connections of both the main circuit breaker CB1 and main contactor K100, have been isolated as sources for voltage anomalies which have led to component failures in the main power branch circuits.

Symptoms: Known failures: 1. UPS failures. 2. Robot system fails to reset or exhibits current limiting.

Test/Validate: On towers having CB1 and K100 conjoined as shown in drawing 212518 all input and output power bus lugs must be confirmed as properly tightened. Disconnect facility power to the tower, test for no 208VAC leg-to-leg for L1, L2, and L3, and LOTO facility feed to CB1. Shut off CB1. Tighten all lugs as shown on page two using a metric #8 hex wrench/key. Use non-round ended hex wrench if possible. DO NOT over-torque and strip the threads. Poor connections will be obviously loose. After all lugs have been properly tightened, remove LOTO and restore power.

Solution: Tower vendor will QC all subsequent units to ensure lugs are tight and to add thread lock and vibration detection lacquer to each lug.

If you have technical questions or require more information, please contact Akrion Technical Support Department via e-mail at techsupport@akrion.com. Authorized service personnel can obtain copies of the latest Akrion procedures and controlled documents from the Akrion Document Control department at doccontrol@akrion.com. Customers must direct all inquires to their local Akrion field service representative. (Form QA1656F1AC)

