AKrion

Technical Bulletin

Number:	053
Date Issued:	01/19/06
Expiration Date:	01/19/07

Subject/Key Words:	Megasonic Power Control System, Software Revisions 6.04.001 – 6.04.021
Classification:	■ Informational ❑ Mandatory ❑ Safety Alert ❑ PM Impact
	❑ Warranty Impact ❑ Purchase Parts ❑ No Charge For Parts expires ___ / ___/___. Reference this TB# when ordering NC parts.
Applicable Akrion Procedures:	QP732F2: Software Installation and Test OP0347: FIT – Installing a Megasonic Amplifier on a GAMA System
Parts/Reference Documents:	None
Attachments:	None

Issue: Poor or erratic cleaning performance on wet stations running Software Revisions 6.04.001 – 6.04.021.

Symptoms: The power output of the megasonic cleaning system amplifier does not match the power setting set in wet station software. For example, a setting of 1600 watts in software results in a power output from the amplifier of only 800 watts.

Test/Validate: To set megasonic power output, the wet station computer sends a 0-10 VDC output signal to the megasonic controller/amplifier. This scalable 0-10Vdc signal should equate to 0-1600 watts of output power. Problems in Software Revisions 6.04.001 through 6.04.021 may result in incorrect voltage signals and low power output.

Solution: Use procedure OP0347 to validate correct setup and operation of the megasonic controller/amplifier. Verify that megasonic power settings in software result in the corresponding megasonic amplifier output. If testing isolates the problem to incorrect DC voltage signals from the I/O board in the wet station computer, upgrade to the latest revision of wet station software. Contact Akrion Software Engineering for details.