



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: 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:	<input checked="" type="checkbox"/> Informational	<input type="checkbox"/> Mandatory	<input type="checkbox"/> Safety Alert	<input type="checkbox"/> PM Impact
	<input type="checkbox"/> Warranty Impact	<input type="checkbox"/> Purchase Parts	<input type="checkbox"/> 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.

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)