



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: 017
Date Issued: 07/02/03
Expiration Date: 07/02/04

Subject/Key Words:	LuCID N2 dry bar manifold end block hardware, particle prevention			
Classification:	<input type="checkbox"/> Informational	<input checked="" type="checkbox"/> Mandatory	<input type="checkbox"/> Safety Alert	<input type="checkbox"/> PM Impact
	<input type="checkbox"/> Warranty Impact	<input checked="" type="checkbox"/> Purchase Parts	<input type="checkbox"/> No Charge For Parts expires ___ / ___ / ___. Reference this TB# when ordering NC parts.	
Applicable Akrion Procedures:	None			
Parts/Reference Documents:	PEEK Hardware kits: 221183-001, qty 2 for 150mm or 200mm series 3 dryers or qty 3 required for 300mm dryers.			
Attachments:	Hardware placement – universal application – see NOTE.			

Issue: The original stainless steel hardware (bolts, nuts and washers) used to secure the hot N2 dry bar manifold end blocks to the dryer lid may corrode due to chemical drag-out into the dryer that can occur during processing or hard-cleaning.

Symptoms: Although no process particle add-on non-compliances have been reported to date, the potential for particle adders exists. Evidence of hardware corrosion would be visually detected upon removal of the manifold end block cover plates or directly visible on assemblies either missing or no using cover plates.

Test/Validate: After replacing the hardware, clean and qualify the dryer for production.

Solution: As a particle add-on preventive measure, Akrion recommends replacing the original stainless steel hardware with PEEK hardware on all LuCID dryers. All 150/200mm Series 3 dryers upgrade require 2 PEEK hardware kits. All 300mm dryers upgrade require three PEEK hardware kits. Refer to the attached diagram for hardware placement.

Clean any corrosion residue with IPA and clean-room wipes. Refer to the attached diagram of a typical lid assembly for hardware orientation. **NOTE:** The two rear kits on a 300mm manifold block actually have the eight screws mounted through the block, not above the block as shown on the diagram. Replace one screw-washer-nut set at a time. This will keep the assemblies in compression and require less torque on the PEEK hardware for a snug fit. **CAUTION:** Take care to avoid rotating the N2 dry bars. This could result in erratic drying performance.

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)

TB017 Attachment: Hardware Placement - Universal Application

NOTE: On a 300mm assembly, the two rearward hardware sets actually attach through the rear manifold block as shown on the rear block for the Series 3 dryer (150mm or 200mm).

