

**Rhetech Inc.**  
**Customer Service**  
**Technical Service Bulletin**



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**Description of problem:**

N2 manifolds made by manufacturers other than Semitool or Rhetech could be subject to serious operating failure. A significant yield loss occurred due to the failure of a spin rinser dryer assembled by a non-OEM company. OEM suppliers Semitool and Rhetech have not observed these failures. The N2 manifold separated from the SRD bowl. The root cause was due to the failure of spot welds that held the non-OEM N2 manifold tube to the mounting bracket. Semitool and Rhetech use TIG welds in their designs. The mounting bracket is used to attach the manifold tube to the SRD bowl.

**Containment actions:**

Rhetech recommends that all SRD customers should inspect all N2 manifolds now in use. The PM technician should replace any N2 manifolds screwed down flush against the SRD bowl. We recommend replacement of any manifolds that are not manufactured by Semitool or Rhetech with OEM N2 manifolds from Rhetech (Contact Rhetech to assure our N2 manifolds will fit your non-OEM build.). For all remaining manifolds, perform a physical inspection by grasping each end of the manifold tube between thumb and forefinger and lifting up on the manifold. The manifold should remain tight against the bowl. Any play or movement indicates either the manifold is not properly bolted on, or a weld has broken. N2 manifolds with broken welds should be replaced; loose manifolds should be tightened per OEM torque specs. For N2 manifold replacement procedures, refer to “Implement permanent corrective action(s)” References (below).

**Implement permanent corrective action(s):** Follow monthly maintenance procedures from:

“Rheteck, Inc., PSC-101 Controller, Remanufactured Spin Rinser/Dryer Owner’s Manual”, Section **4.1 Replacing N2 Manifold/Heater Cartridge**

“Rheteck, Inc., PSC-102 Controller, Remanufactured Spin Rinser /Dryer Owner’s Manual”, Section **10.1 Replacing N2 Manifold/Heater Cartridge**

“Semitool, SRD 101, PSC-101 Controller, Owner’s Manual”, Section **4.1 Replacing N2 Manifold/Heater Cartridge**

“Semitool, SRD 102, PSC-102 Controller, Owner’s Manual”, Section **10.1 Replacing N2 Manifold/Heater Cartridge**

**Further Information:**

Consult FAQ #24 on Rheteck’s web site at [www.rheteckinc.com](http://www.rheteckinc.com). On the home page, click on “Technical FAQs” listed on the right hand side.