

Scope:

This bulletin covers the field installation of a Transient Voltage Suppression Adapter (part number 7-34-151, LN2 Fill Solenoid Cable) for BioArchive® System.

Background:

This device is being added to the existing BioArchive Dewar Signal II Harness (part number 7-34-130) to improve reliability of the Control/Signal Distribution Printed Circuit Board (part number 7-35-126) by reducing Transient Voltage Spikes generated by the LN2 Fill Valve Solenoid Coil when it is energized.

Installation Procedure:

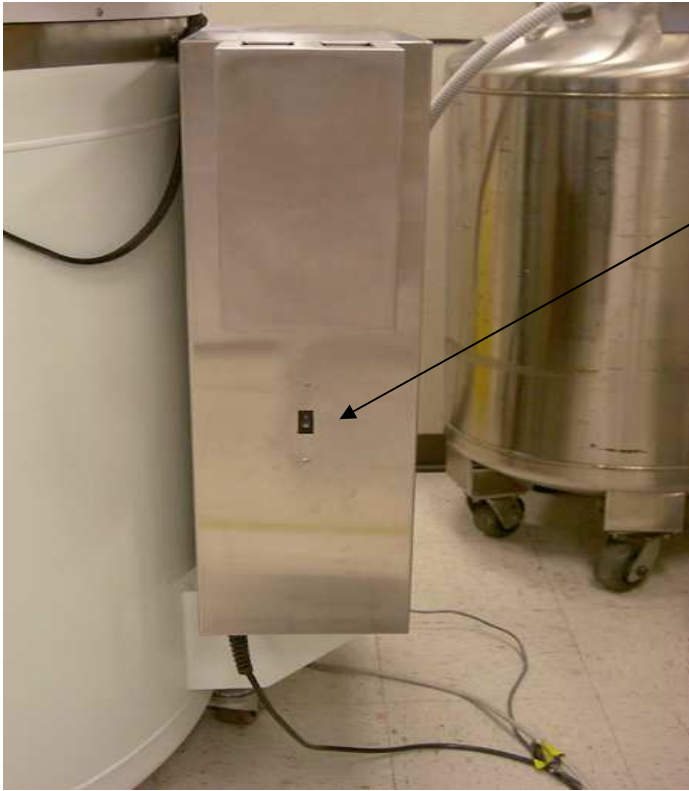
1. Verify that the LN2 Level status displayed on the computer screen states “Low, Needs To Fill”. If the level status is “High”, wait until it displays “Low, Needs To Fill” before proceeding with installing adapter.
2. Turn power off to the BioArchive System, at both the Electronics Box Power Switch (see figure 1) and the SMS Computer Power Strip.
3. Locate the LN2 Solenoid Valve Enclosure (see figure2). Find the two red wires coming from the enclosure, which plugs into the Signal Harness Cable (see figure 2).
4. Unplug the Signal Harness Cable from the Solenoid Valve by pulling the white connectors apart.
5. Plug the Suppression Adapter (part number 7-34-151) in between the Signal Harness Cable Connector and the Solenoid Valve Connector. The adapter connectors are keyed and polarized, so it can only be installed one way (see figure 3)
6. Turn Power on at the BioArchive Electronics Box first and then the BioArchive SMS computer.
7. Unit will boot up into factory mode, which is indicated by “LN2” showing in the status bar at the bottom of the screen. Observing that the system LN2 status was at “Low, Needs To Fill” at the point when power was turned off, verify that the BioArchive initiates LN2 filling, which indicates the Suppression Adapter was installed correctly.
8. After verifying the Suppression adapter is properly installed, place BioArchive System into Processing Mode per the BioArchive System Operators Manual, Restarting the Instrument (section 13-10 in Revision D & E, page 94 in Revision C).

Notification Form

Complete the “Installation of Suppression Adapter Notification Form” (page 3) and fax it to THERMOGENESIS CORP.

Contact Information:

If you have any questions, contact THERMOGENESIS CORP. Technical Service at 800-783-8357 (U.S. and Canada) or 916-858-5100 (non-U.S./Canada), or fax to 916-858-5199 for assistance.



Power Switch
on
BioArchive

Figure 1



Signal Harness
Cable & Solenoid
Valve Cable
Connection

Solenoid Valve
Enclosure

Figure 2



With Suppression Adapter installed.

Figure 3



Fax

To: ThermoGenesis Corp. **From:**
Attention: Customer Service

Fax: 916 858-5199 **Pages:** 1

Phone: 916 858-5100 **Date:**

Re: Suppression Adapter installation **CC:**
Notification

Installation of Suppression Adapter (P/N 7-34-151) Notification Form

Date: _____

Company: _____

Address: _____

City, State, Zip: _____

Installer: _____

BioArchive Serial Number Update: _____

Date Installed: _____

System operation was verified with
new Suppression Adapter (LN2
filling operated properly after
installation) Yes No

Signature: _____

Date: _____

Fax completed form to THERMOGENESIS CORP. Customer Service at (916) 858-5199