NETCOM® MODEL ADH

AUTOMATIC AIR DEHYDRATOR WITH ETHERNET

ADH® NETCOM™ AUTOMATIC AIR DEHYDRATOR DC DUAL REDUNDANT POWER SUPPLY MODULE REPLACEMENT PROCEDURE

Replacement Kit Part Number 24095
Document Part Number 24107

SAFETY INFORMATION AND WARNINGS

Abnormal Odor or Smoke

In the event of smoke or a burning or abnormal odor, immediately interrupt power to the ADH NETCOM with the POWER switch at the rear of the unit, unplug the unit, or turn off the circuit breaker controlling the outlet. Note that only the AC model of the ADH NETCOM has an ON / OFF switch.

Lethal Voltages Present

Lethal voltages are present inside the ADH NETCOM. Service should be performed by qualified personnel only. There are no user serviceable components inside the chassis.

Pneumatics

Each of the air pumps inside the ADH NETCOM automatic air dehydrator is capable of generating as much as 24 psig (1,655mbar). Other attached dry air sources may be capable of generating even higher pressures. Proper safety practice requires treating all pneumatic components with care. Always vent the system to atmospheric pressure before servicing pneumatic components.

Rack Mounting

Before and after rack mounting the ADH NETCOM, ensure that the rack is stable. Mounting of the ADH NETCOM into a rack should be such that a hazardous condition is not created due to uneven mechanical loading. Verify that adequate air flow and power source capacity is available to the unit. Ensure that the ADH NETCOM maximum operating temperature of 130°F (55°C) will not be compromised by other components in the rack. Ensure reliable earthing of the ADH NETCOM.

ADH NETCOM DC DUAL REDUNDANT POWER SUPPLY MODULE REPLACEMENT PROCEDURE

This procedure addresses the removal and replacement of the DC Dual Redundant Power Supply Module in an ADH NETCOM Automatic Air Dehydrator with DC Dual Redundant Power. It is recommended to read the entire procedure prior to beginning work.

INVENTORY LIST

Identify the following items in this kit prior to beginning work.

TOOLS REQUIRED
The following tools are needed to perform this procedure:

- 5/16" Nut driver
- Small flat blade screwdriver
- Needle nose pliers

Item Number	Part Number	Item Quantity	Item Description
1	23224	1	DC Dual Redundant Power Supply Module
2	24107	1	Instruction Manual (this document)

DC DUAL REDUNDANT POWER SUPPLY MODULE
REMOVAL AND REPLACEMENT

To replace the DC Dual Redundant Power Supply Module (23224) in an ADH NETCOM with DC Dual Redundant Power, perform the steps below. Refer to Figure 1.

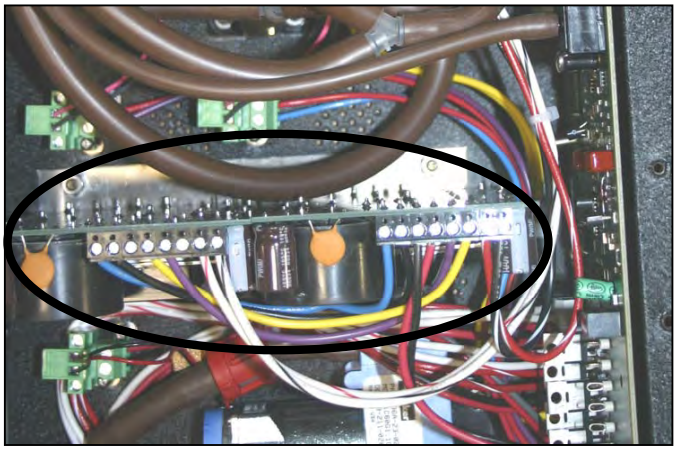

Figure 1. THE ADH NETCOM AUTOMATIC AIR DEHYDRATOR DC DUAL REDUNDANT POWER SUPPLY MODULE.

NOTE:

As its name implies and as shown in Figure 1, the DC Dual Redundant Power Supply Module is comprised of two halves, wired to each other in parallel. Follow this procedure as written, disconnecting then connecting only those electrical leads specified in this procedure. Do not disconnect any of the wires connecting either half of the supply module to the other half as doing so will adversely impact the function, integrity, and electrical continuity of the redundant supply module.

1. Shut off DC unit power by shutting off the external power supply. If possible, move the dehydrator to a work table.

2. Remove both top machine panels. Retain the mounting hardware.

3. From the far right side of the left bank of supply module electrical leads, disconnect the white/red and white/black striped leads. Refer to Number 1 of Figure 2. To disconnect the lead, unscrew the set screw above it, then gently remove the lead from the terminal. Remove both the white/red and the white/black striped leads.

4. From the far right side of the right bank of supply module electrical leads, disconnect the red/white and black/white striped leads. Refer to Number 2 of Figure 2. To disconnect the lead, unscrew the set screw above it, then gently remove the lead from the terminal. Remove both the red/white and the black/white striped leads.

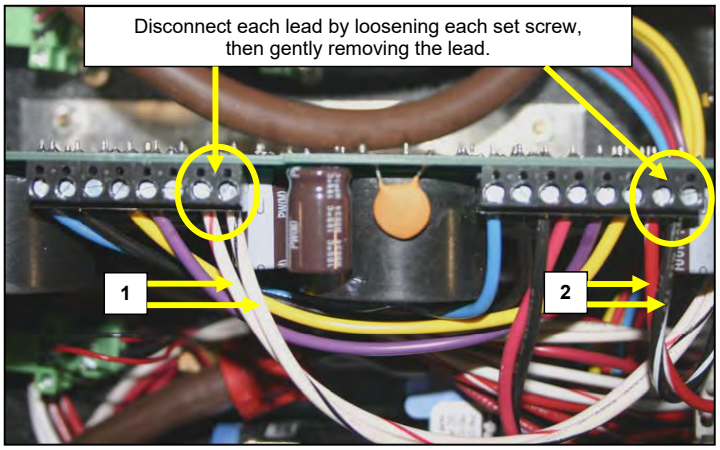

Figure 2. DC DUAL REDUNDANT POWER SUPPLY MODULE LEFT-SIDE TERMINALS.

5. From the far left side of the PC board terminal block, disconnect the red and black electrical leads. Refer to Figure 3. To disconnect the lead, push in on the orange release tab under the lead, then gently remove the lead from the terminal. Remove both the red and black leads.

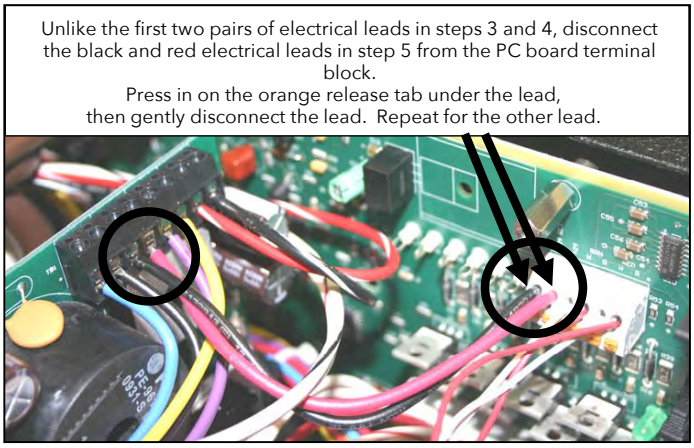

Figure 3. THE PC BOARD TERMINAL BLOCK.

6. Using the nut driver, remove the two nuts and lock washers securing the existing power supply module to the chassis and remove the module. Refer to Figure 4. Retain the mounting hardware.

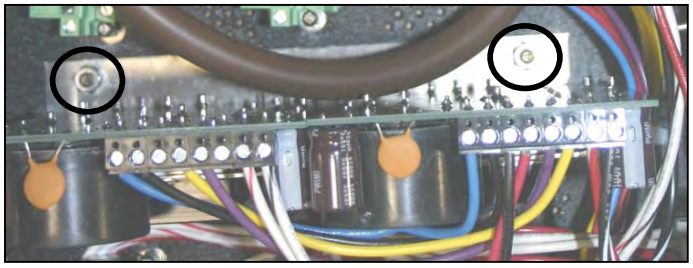

Figure 4. POWER SUPPLY MODULE MOUNTING HARDWARE (2 places).

7. Install the new power supply module onto the Pem® studs from which the original supply module was removed. Secure in place using the two sets of nuts and lock washers removed in step 6. Torque to 10 in/lb.

8. Connect the pair of solid red and black leads running from the new power supply module to the two terminals on the far left side of the PC board terminal block from which the original leads were disconnected in step 5. Refer back to Figure 3. Connect the leads with the black lead on the left and the red lead on the right.

9. Connect the red/white and black/white striped leads from the cable bundle to the two far right terminals on the righ side of the new power supply module from which the original leads were disconnected in step 4. Refer back to Figure 2. Connect the leads with the red/white lead on the left and the black/white lead on the right and secure in place by tightening the set screw from above.

10. Connect the white/red and white/black striped leads from the cable bundle to the two far right terminals on the lef side of the new power supply module from which the original leads were disconnected in step 3. Refer back to Figure 2. Connect the leads with the white/red lead on the left and the white/black lead on the right and secure in place by tightening the set screw from above.

11. Reinstall the machine top panels using the hardware removed in step 2.

12. Restore machine power.

QUESTIONS AND COMMENTS

For technical help, questions, or comments concerning this or any ETI, Inc., product, contact the Customer Service Department between 8:00 a.m. and 5:00 p.m. EST.

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