



eti **NETCOM** **MODEL ADH NEMA**
AUTOMATIC AIR DEHYDRATOR WITH AC POWER SUPPLY

AC POWER SUPPLY MODULE REPLACEMENT PROCEDURE

Replacement Kit Part Number 24093
Document Part Number 24732



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.



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.



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 AC NEMA AC POWER SUPPLY MODULE REPLACEMENT PROCEDURE

This procedure addresses the removal and replacement of the AC Power Supply Module in an ADH NETCOM AC NEMA Automatic Air Dehydrator. 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.

QTY.	PART NO.	DESCRIPTION
1	23566	AC Power Supply Module
1	24732	Instruction Manual (this document)

TOOLS REQUIRED

The following tools are needed to perform this procedure:

- Small flat blade screwdriver
- 5/16" Nut driver
- Philips screwdriver
- Long screwdriver

Perform the following steps to replace the ADH NETCOM AC NEMA Automatic Air Dehydrator AC Power Supply Module (23566)

1. Shut off machine power by unplugging the unit.
2. Open the two front door latches, loosen the two captive screws in the corners of the housing opposite the hinges, then open the NEMA box. Place an object underneath the door once open to help support it during this procedure.
3. Remove the orange ethernet cable on the left by disconnecting both ends, then removing it. Set aside for re-use. Remove the power cable connector on the right by loosening the captive screw on each end of the green connector, then unplugging the connector. Disconnect the ground wire by loosening the ground wire retaining screw, then carefully removing the ground wire. Refer to Figures 1.A & 1.B.
4. Remove and retain the four mounting screws from the four corners of the protective front cover, then slowly lift the front cover, carefully flip it over, then set it down, upside down, to rest on the inside of the enclosure door. Be careful as there are still many wires connected between the enclosure and the front cover and there isn't a lot of slack. Note that the two upper front cover mounting screws are located in plain sight in the top corners of the front cover, while the two lower front cover corner mounting screws are located down in the front "well" of the unit. Use a long-handled screwdriver to remove them.

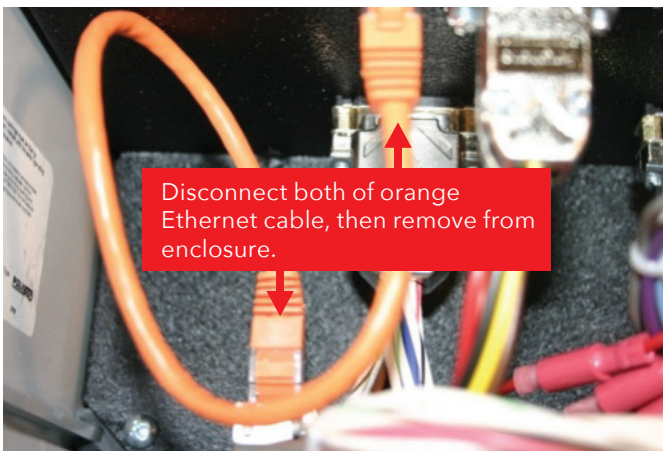


Figure 1.A - DISCONNECTING THE ETHERNET CABLE, THE POWER CABLE CONNECTOR, AND THE GROUND WIRE.

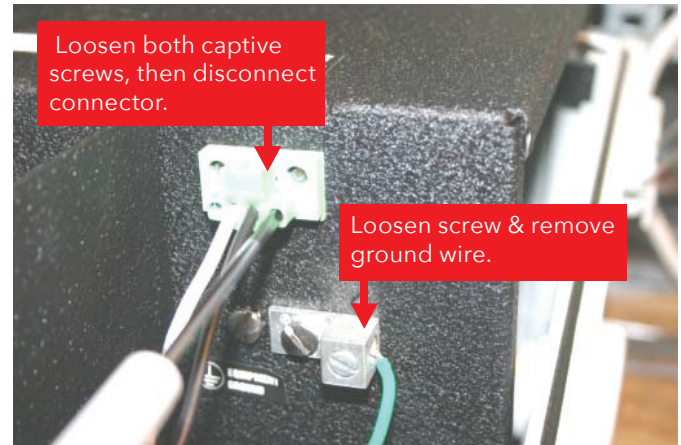


Figure 1.B - DISCONNECTING THE ETHERNET CABLE, THE POWER CABLE CONNECTOR, AND THE GROUND WIRE.

5. The AC power supply module is located on the inside of the front cover. If not already done, place a brace or prop of some kind under the NEMA enclosure door to support it during this procedure.
6. Using the nut driver, remove the four nuts and lock washers securing the power supply module mounting bracket to the Pem® studs inside the front cover. Refer to Figure 2. Retain the mounting hardware.

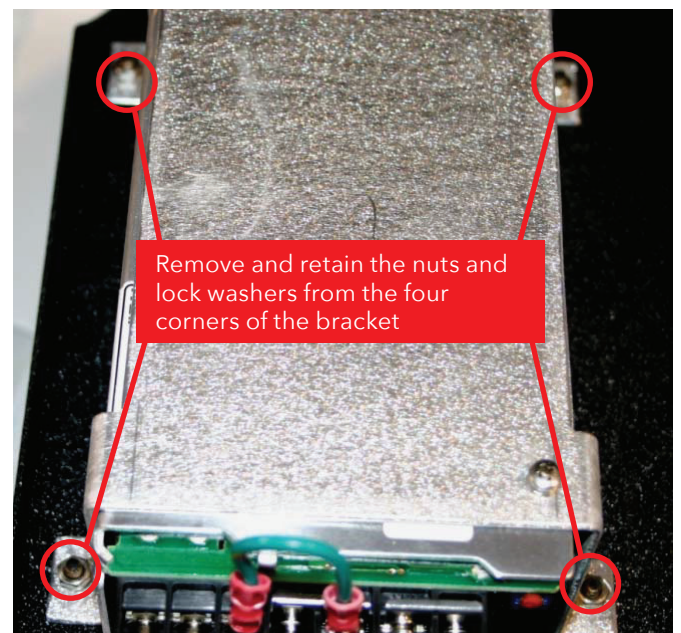


Figure 2. - THE AC POWER SUPPLY MODULE MOUNTING BRACKET.

7. Once the four nuts and lock washers securing the mounting bracket to the front cover have been removed, move the existing power module and mounting bracket away from other components for greater clearance.
8. Note the configuration of the five electrical leads connected to the existing AC power supply module. Refer to Figure 3 and Table 1. These leads will connect to the corresponding terminals on the new module. Using a Philips screwdriver, carefully loosen the set screws securing the electrical leads to the existing supply module terminals, then carefully remove the leads from the existing module. Also at this time, remove the jumper cable from across terminals 3 and 5 on the top side of the terminals.

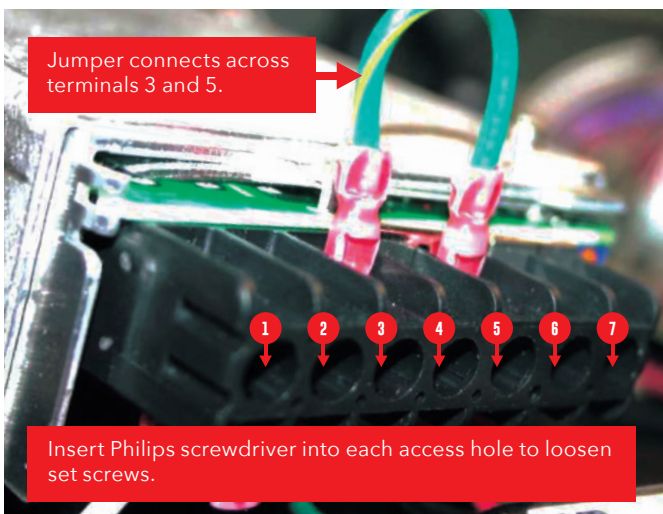


Figure 3. - AC POWER SUPPLY MODULE ELECTRICAL CONNECTIONS

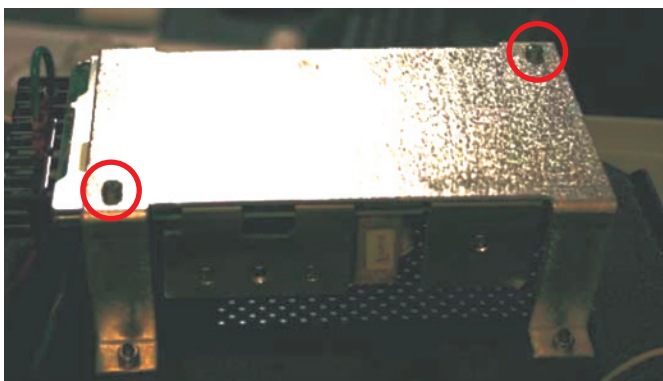


Figure 4. - THE AC POWER SUPPLY MODULE MOUNTING BRACKET SECURING SCREWS.

9. Remove the two screws and lock washers connecting the power supply module to the mounting bracket. Refer to Figure 4.

Set aside the mounting bracket and attaching hardware for re-use.

10. Using the two screws and lock washers removed in step 9, install the new power supply module to the mounting bracket and torque to 8 in/lb.
11. Prior to installing the new power supply module and mounting bracket, connect the electrical leads and jumper to the new supply module as they were connected to the original module. Refer back to Figure 3 and Table 1 on the previous page. Secure each lead and the jumper across terminals 3 and 5 by placing each lead behind the mounting screw from underneath then tightening the mounting screw inside each terminal. Gently tug on each lead to make sure it is fastened securely.
12. Once the five electrical leads and jumper are installed to the new supply module and the module itself is connected to the mounting bracket, install the mounting bracket over the Pem® studs on the inside of the front cover as the original module had been. Using the nut driver, install the four nuts and lock washers removed in step 6 and torque to 10 in/lb.
13. Reinstall the front cover removed in step 4. If it was placed upside down on the lid of the unit during this procedure, carefully turn the cover back over and work it back into position, past the wires and other components in the enclosure. Reinstall the four corner screws securing the front cover to the chassis.
14. Reconnect the ground wire by inserting it behind the retaining screw from which it was removed, then tighten the ground wire retaining screw. Reconnect the green power connector by holding it in place then tightening the two captive screws removed in step 3. Reconnect both ends of the orange Ethernet cable removed in step 3. It does not matter which end of the Ethernet cable goes into which receptacle.
15. With the ground wire, power connector and Ethernet cable reconnected, close the lid of the NEMA enclosure and secure the two latches opposite the hinges. Secure the lid in place by reinstalling the two captive screws in the two outer corners of the lid.
16. Restore machine power by plugging the unit back in.

AC Power Supply Module Terminals						
1	2	3	4	5	6	7
Wire Color						
White	Black	Green / Yellow	Not used	Black	Red	Not used
Wire Function						
Line	Neutral	Ground	-	Ground (Return)	+24V (Positive)	-

Table 1. - AC POWER SUPPLY MODULE ELECTRICAL CONNECTIONS.

CONTACTING CUSTOMER SERVICE

For technical help, questions or comments concerning this product or any ETI product contact Customer Service 8:00 a.m. - 5:00 p.m. Eastern Time.

Email: info@networketi.com

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Mail: ETI

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