



User Instruction Manual




Nomad II


4500 PSI Portable Air Compressor



AV-MCOMP4500-2


Contents

Parts Included.....	3
Setting up your Nomad II Compressor	4
Operation Instructions: 110V or 220V outlet.....	5-6
Operation Instruction: 12V Battery	7-8
Operation the Lights.....	9
Installing the Foot Extensions.....	9
Lubricating your Nomad II Compressor.....	10
Output Air Filter Replacement	10
Purging the Lubrication System.....	11
Basic Maintenance	11
Troubleshooting.....	12
Warranty	13

 IMPORTANT	THIS PRODUCT IS MADE TO FILL PRE-CHARGED PNEUMATIC (PCP) AIR RIFLES AND PISTOLS DIRECTLY. THIS PRODUCT SHOULD NOT BE USED TO FILL STAND ALONE SCUBA OR SCUBA TANKS/CYLINDERS. FILLING SCBA OR SCUBA TANKS/CYLINDERS MAY DAMAGE THE COMPRESSOR AND WILL VOID YOUR WARRANTY.
---	--

 DANGER	DANGER OF EXPLOSION! Overfilled compressed air cylinder	
Do NOT exceed maximum fill pressure of your cylinder at room temperature!		

 IMPORTANT	YOU AND OTHERS WITH YOU SHOULD ALWAYS WEAR SAFETY GLASSES TO PROTECT YOUR EYES. READ ALL INSTRUCTIONS BEFORE USING.	
---	---	---

 WARNING	DO NOT OVERFILL AIR CYLINDERS OR AIR GUN TANKS, AS THIS CAN CAUSE SERIOUS INJURY OR DEATH. NEVER SET THE OUTPUT PRESSURE/AUTO SHUT OFF ABOVE 4500 PSI (310 BAR).
---	--

Parts Included

1. Replacement fuse
2. Male QD fitting & test plug
3. Replacement burst disks
4. Spare O-rings
5. Replacement valve springs
6. Replacement seals
7. Oil applicator bottle
8. Jumper Cables
9. Replacement filters
10. Foot extensions
11. 3-prong power cord (not pictured)



Setting up your Nomad II Compressor

Your Nomad II comes pre-set to operate from an 110V outlet. Should you choose to use the unit with a 220V outlet, complete the following steps.

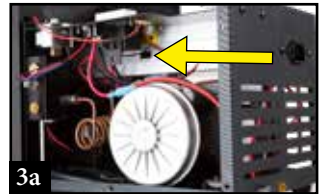
1) The cover must be removed. Before removing, make sure the compressor is not connected to an active electrical outlet. Start by removing each of the 12 phillips head screws, with a phillips head screwdriver turning them counter-clockwise (fig. 1).



2) Carefully lift the cover off of the unit, taking extra care not to disconnect any of the wiring that is attached to the **ON/OFF** and **POWER/RESET** switches or the **LOAD** gauge (fig. 2)



3) Locate the adjustment window on the power converter (fig. 3a) . It will be located behind wires, take care not to dislodge or disconnect any of the wires while adjusting. Using an allen key, move the switch to the right. This will select the 220V input power setting (fig. 3b) .



4) Replace the cover on the unit, and reinstall the 12 phillips head screws (fig. 4)



5) Attach the hose and output filter to the compressor via the female quick disconnect fitting. The end with the filter should be closest to the compressor (see image for proper configuration) - (fig. 5).



Operation Instruction: 110V or 220V outlet

1) Plug the power cord into the Nomad II (fig. 1). **DO NOT** plug the three prong connector into an active wall outlet yet.

2) Plug the 110V three prong connector into your wall outlet (fig. 2). Once plugged in, the fan on the power converter will turn on. The compressor fans and **LOAD** gauge will not come on yet.

NOTE: If connecting to a 220V outlet, an outlet adapter will be necessary to use the included power cord.

3) Set the desired fill pressure via the dial on the top of the pressure gauge (fig. 3).

⚠ WARNING DO NOT OVERFILL AIR CYLINDERS OR AIR GUN TANKS, AS THIS CAN CAUSE SERIOUS INJURY OR DEATH. NEVER SET THE OUTPUT PRESSURE/AUTO SHUT OFF ABOVE 4500 PSI (310 BAR).

4) Make sure the connection between the female quick disconnect on the hose and the male connection on the compressor are tight (fig. 4).

⚠ CAUTION: Always check and make sure the collar on the female quick disconnect is in the forward position and secure on the male fitting you are connecting it to. It is recommended that you check the connection by attempting to pull the female and male ends apart while the collar on the female fitting is in the forward position.

5) Close the bleed/pressure release valve by turning it clockwise until it is tight (fig. 5).

6) On the underside of the unit, locate the “Moisture Release Valve” and turn clockwise (fig. 6) until tight to close it.

7) Connect the output hose to the device you wish to fill via the female quick disconnect fitting (fig. 7).

⚠ CAUTION: Always check and make sure the collar on the female quick disconnect is in the forward position and secure on the male fitting you are connecting it to. It is recommended that you check the connection by attempting to pull the female and male ends apart while the collar on the female fitting is in the forward position.

PLEASE NOTE: If you are filling a PCP airgun from empty, you may need to cock the gun before starting the fill process. Consult the owner's manual of your airgun for further instructions.

8) Once these steps are complete, depress the **POWER/RESET** button. The **LOAD** gauge will illuminate and the compressor fans will begin to run (fig. 8).



Operation Instruction: 110V or 220V outlet

9) Once the fans are running, depress the **ON/OFF** button to begin filling (fig. 9).

Note: You can stop the fill process at any time by depressing the ON/OFF button. If you do stop the fill for any reason, you MUST bleed the pressure in the line before resuming filling. If you DO NOT bleed the pressure in the line and just depress the ON/OFF button to resume filling, the Nomad II will automatically stop after a few seconds of running.

10) Once the pre-set fill pressure is reached, the compressor will stop (fig. 10).

NOTE: The cooling fans will continue to run.

11) Release/Bleed the pressure in the system by turning the pressure release/bleed screw counter-clockwise (fig. 11).

⚠ CAUTION: Air and/or liquid may be released at high velocity from the bottom of the unit. Keep fingers/hands/eyes clear from the bottom of the unit when opening the pressure release/bleed screw.

12) Once the pressure is released and the pressure gauge on the compressor reads 0 PSI/BAR, disconnect the hose from the filled device by pulling back the collar on the female quick disconnect fitting and at the same time, pulling it off of the male fitting it was connected to (fig. 12).

13) To power down your Nomad II, depress the **POWER/RESET** button (fig. 13a) and the **LOAD** gauge and compressor fans will turn off. Unplugging the three prong connector (fig. 13b) from your 110V outlet will turn off the power converter fan.



Operation Instruction: 12V Battery

1) Using the included jumper cables, connect the red clamp to the positive post on the battery. Then connect the black clamp to the negative post on the battery (fig. 1).



2) Connect the cables to the compressor by inserting the yellow plug into the outlet on the compressor (fig. 2).



3) Set the desired fill pressure via the dial on the top of the pressure gauge (fig. 3).



! WARNING DO NOT OVERFILL AIR CYLINDERS OR AIR GUN TANKS, AS THIS CAN CAUSE SERIOUS INJURY OR DEATH. NEVER SET THE OUTPUT PRESSURE/AUTO SHUT OFF ABOVE 4500 PSI (310 BAR).

4) Make sure the connection between the female quick disconnect on the hose and the male connection on the compressor are tight (fig. 4).



! CAUTION: Always check and make sure the collar on the female quick disconnect is in the forward position and secure on the male fitting you are connecting it to. It is recommended that you check the connection by attempting to pull the female and male ends apart while the collar on the female fitting is in the forward position.

5) Close the bleed/pressure release valve by turning it clockwise until it is tight (fig. 5).



6) On the underside of the unit, locate the "Moisture Release Valve" and turn clockwise until tight (fig. 6).



7) Connect the output hose to the device you wish to fill via the female quick disconnect fitting (fig. 7).



! CAUTION: Always check and make sure the collar on the female quick disconnect is in the forward position and secure on the male fitting you are connecting it to. It is recommended that you check the connection by attempting to pull the female and male ends apart while the collar on the female fitting is in the forward position.

PLEASE NOTE: If you are filling a PCP airgun from empty, you may need to cock the gun before starting the fill process. Consult the owner's manual of your rifle for further instructions.

Operation Instruction: 12V Battery

8) Once these steps are complete, depress the **POWER/RESET** button. The **LOAD** gauge will illuminate and the compressor fans will begin to run (fig. 8).



9) Once the fans are running, depress the **ON/OFF** button to begin filling (fig. 9).

Note: You can stop the fill process at any time by depressing the ON/OFF button. If you do stop the fill for any reason, you MUST bleed the pressure in the line before resuming filling. If you DO NOT bleed the pressure in the line and just depress the ON/OFF button to resume filling, the Nomad will automatically stop after a few seconds of running.



10) Once the pre-set fill pressure is reached, the compressor will stop (fig. 10).

NOTE: The cooling fans will continue to run.



11) Release/Bleed the pressure in the system by turning the pressure release/bleed screw counter-clockwise (fig. 11).



CAUTION: Air and/or liquid may be released at high velocity from the bottom of the unit. Keep fingers/hands/eyes clear from the bottom of the unit when opening the pressure release/bleed screw.

12) Once the pressure is released and the pressure gauge on the compressor reads 0 PSI/BAR, disconnect the hose from the filled device by pulling back the collar on the female quick disconnect fitting and at the same time, pulling it off of the male fitting it was connected to (fig. 12).



13) To power down your Nomad II, depress the **POWER/RESET** button (fig. 13a) and the **LOAD** gauge and compressor fans will turn off. Unplugging the yellow connector (fig. 13b) from your Nomad II will turn off the power converter fan.



Operating the Lights

The blue lighting on the underside of your Nomad II will only come on once the **POWER/RESET** button has been depressed, turning the unit on.

1) Locate the red **ON/OFF** switch in the middle of the LED light panel on the underside of the unit.



2) If you want the LED lights to turn on while the unit is operational, depress the "—" symbol on the red switch (fig. 1).



3) If you want the LED lights turned off (fig.3) while the unit is operational, depress the "O" symbol on the red switch (fig. 2).



Installing the Feet Extensions

Included with your Nomad II are feet extensions that will position the unit higher off of the surface the unit is on. This will allow for easier access to the underside of the unit (specifically the LED light switch and the Moisture Release Valve) should you require it.

1) Remove the rubber feet by turning them counter-clockwise, until they are removed from the unit (fig. 1).



2) Place one extension disc onto the threaded screw (fig. 2).



3) Replace each foot with the extension by turning them clockwise (fig. 3a).until they are tight against the bottom of the unit. (fig. 3b).



Lubricating your NomadII Compressor

Locate the lubrication hole on the left hand side of the unit. Using the included oil applicator bottle, apply 2-3 drops of silicone oil every 5 fills or 1.5 hours of use (*whichever comes first*).

The "LOAD" gauge on the top of the Nomad II can also be used to determine oil application intervals. If the **LOAD** gauge reaches 28 during operation, it is necessary to apply silicone oil. The Nomad II will automatically shut off if the **LOAD** gauge exceeds 29.



IMPORTANT: Use only silicone oil to lubricate the compressor. The use of any other oil/lubricant is not recommended and may void your warranty.

Output Air Filter Replacement

NOTE: It is recommended that you replace the Air Filter every 2-3 hours of use. Should you require extra Air Filters, they can be purchased through Air Venturi. (216-220-1180).

1) Remove the filter and hose assembly from the compressor unit by pulling back the collar on the female quick disconnect fitting and pulling the filter away from the compressor (fig. 1).



2) Find the seam in the filter housing (fig. 2.1), twist the large half counter-clockwise, unscrewing it until the unit separates (fig. 2.2).



3) Locate the cartridge filter inside of the large half of the filter housing (fig 3.1). Remove it with tweezers or by puncturing it with an allen key and pulling it out of the housing (fig. 3.2).



4) Once the used filter is removed, replace it with a new cartridge filter by pressing the new filter into the large half of the housing (fig. 4).



5) Reassemble the filter housing by screwing the small and large halves together, turning the large half clockwise until it is hand tight (fig. 5).



6) Re-attach the female quick disconnect to the compressor by pulling back on the collar on the female while pressing it onto the male fitting. Make sure the collar is in the forward/locked position before attempting to run the compressor.

Purging the Lubrication System

Every 20 fills it is important to purge the Nomad II of excess silicone oil and moisture. Once you have completed the 20th fill with your Nomad II, before opening the Pressure Release Valve, locate the Moisture Release Valve on the underside of the unit. Turn the Moisture Release Valve counter-clockwise to purge the system. (fig. 1)



⚠️ IMPORTANT

AIR AND / OR LIQUID MAY BE RELEASED AT HIGH VELOCITY.

Basic Maintenance

Maintenance should be performed at the following times:

- 1) If oil has been added recently and the LOAD gauge still reads 28 or higher.
- 2) If fill times increase without any signs of leaking.
- 3) Once every 20-30 fills.

Turn on the Nomad II compressor and open the Moisture Release Valve on the underside of the unit by turning the knurled screw counter-clockwise. Add 2-3 drops of silicone oil into the lubrication hole repeatedly in 30 second intervals, six times. (That's a total of 12-18 drops over 2:30 - 3 minutes). Once complete, allow the compressor to run for another 3 - 5 minutes with the Moisture Release Valve open to allow the lubricant to circulate in the system. When finished, turn the compressor off and close the Moisture Release Valve by turning the knurled screw clockwise until tight.

⚠️ IMPORTANT

FAILURE TO PERFORM BASIC MAINTENANCE AS DETAILED ABOVE WILL VOID YOUR WARRANTY.

Troubleshooting

Issue - Compressor will not start

- **Resolution** - Make sure power converter is plugged into a functional electrical outlet and make sure power converter is properly plugged into the compressor. If using a 12V battery, make sure the jumper cables are properly connected as detailed in the instructions.

Issue - Compressor is not building pressure

- **Resolution** - Make sure the moisture release valve and the pressure release valve are closed. They should be hand tightened. If release valves are closed and the compressor is still not building pressure, contact Air Venturi by calling: **216-220-1180**.

Issue - Compressor shuts off before reaching desired pressure.

- **Resolution** - Make sure the Output Pressure Dial (*Auto Shut Off*) is set properly.

Issue - Burst disc failure

- **Resolution** - Should the burst disc fail during use of the compressor, depress the **ON/OFF** button and make sure the compressor has stopped. Open the Pressure Release Valve to let the remaining air vent from the compressor. Once you have verified the burst disc has failed (*there will be a hole in it*) by removing the burst disc retention screw (*pictured right*), remove the broken burst disc from the unit. You will find additional burst discs in the bag of spare parts that comes with the compressor. Install a new burst disc, and re-insert the burst disc retention screw by turning clockwise. If you do not have additional burst discs, contact Air Venturi for replacement at: **216-220-1180**.



In the unlikely event that your compressor malfunctions, DO NOT ATTEMPT TO FIX THE PROBLEM YOURSELF. Please call Air Venturi's service line so we can address any issues or have you return the compressor for repair. Air Venturi Service Line: 216-220-1180

Warranty

One Year Limited Warranty

Your Air Venturi Compressor is manufactured to the highest possible standards, using quality materials to give a lifetime of service. In the unlikely event that there are any defects in materials or workmanship in the first twelve (12) months after retail purchase, we will repair or replace the defective items under warranty.

What is covered?

- Replacement Parts and labor.
- Transportation charges to consumer for repaired product.

What is NOT covered?

- Any damage or faults caused by owner misuse, action or inaction.
- Transportation charges to Air Venturi for defective products.
- Damages caused by abuse or failure to perform normal maintenance.
- Any other expense.
- Parts subject to normal wear and tear.
- Consequential damages, incidental damages or incidental expenses including damage to property.

This warranty is in addition to your statutory rights. Retain your sales receipt as proof of purchase.

***NOTE:** Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.*

Warranty claims:

Call Air Venturi at 216-220-1180 before returning any product.

Implied Warranties:

Any implied warranties, including the implied warranties of merchantability and fitness for a particular purpose, are limited in duration to one year from the date of retail purchase.

***NOTE:** Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.*

To the extent any provision of this warranty is prohibited by federal, state or municipal law, which cannot be preempted, it shall not be applicable. This warranty gives you specific legal rights, any you may also have other rights, which vary from state to state and country to country.

Illustrations and photographs are for information purposes only and may not show the exact model you purchased.

This warranty shall be invalid if the Compressor:

- Has been incorrectly disassembled, reassembled or maintained.
- Has been fitted with non--Air Venturi parts.
- Has been abused, misused or improperly stored.
- Original purchase receipt cannot be presented.



AIR VENTURI®

5135 Naiman Parkway, Cleveland, OH 44139

Ph: 216-292-2570 • fax: 216-373-0086