

# INOvent® Pre-Use Checkout

For details of this procedure reference the Operation and Maintenance Manual  
Section 5/ Pre-Use Procedure

**Important:** This guide is provided for general information only and is not a substitute for the Operation and Maintenance Manual. Refer to the manual for detailed information. 24 hour Technical Support  
Tel. 877.566.9466

## Step I: High Pressure Leak Test

- Turn the INOvent delivery system ON and make sure the buzzer and speaker sound. Wait until monitor displays numeric values for NO/NO<sub>2</sub>/O<sub>2</sub> (make sure manual bagging flowmeter is turned off).
- Perform high pressure leak test.
  - Inspect all gas connections, verify the white plastic (Kel-F) tip, on the end of the regulator hose, is in place and not damaged.
  - Connect the regulator to the INOmax® treatment cylinder and to the quick connect on the INOvent.
  - Open and then close the INOmax cylinder valve. Monitor pressure gauge for 30 seconds for any signs of leakage.
  - Repeat the process using the second regulator assembly.

**Note:** The pressure drop leak test will not detect leaks at the cylinder valve outlet connection because of the check valve in the regulator hose. If a leak is suspected, see the O&M manual Section 13/ Appendix B.

## Step II: Low Range Calibration


(refer to page 4-2 in the O&M Manual for details)

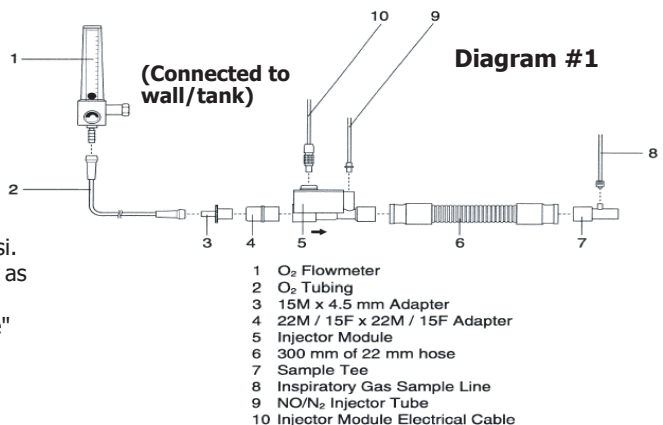
- Perform Low Range Calibration.

## Step III: Purge

**Assemble connectors and tubing as shown in Diagram #1 for this procedure.**

- Ensure the INOmax regulator is pressurized and the cylinder valve is closed.
- Using a flowmeter from the wall or a cylinder source, set the oxygen flow to 15 L/min.
- Purge INOvent Delivery System.
  - Set the NO dose to its maximum concentration (80 ppm).
  - Cylinder gauge pressure will drop slowly to 0 psi.
  - Measured NO<sub>2</sub> will increase, and then decrease as NO<sub>2</sub> is purged from the system.
  - "Low NO/N<sub>2</sub> Pressure" and the "Delivery Failure" alarms will occur.
  - The purge is now complete.

 Be sure a purge has been completed within five minutes before the start of NO therapy.



## Step IV: Performance Test

Leave everything connected as in Diagram # 1 for this procedure.

- Open INOmax® cylinder valve.
- Using a flowmeter from the wall or a cylinder source, ensure the oxygen flow is set to 15 L/min. as in step 3.
- Set NO dose to 40 ppm, allow values to stabilize. Compare INOvent monitor values to the table below.

Set NO Dose	40 ppm
Acceptable NO Values	32-48 ppm
Acceptable NO <sub>2</sub> values	< 1.5 ppm
FiO <sub>2</sub>	95% ± 3%

(allow 2-3 minutes for monitored values to stabilize)

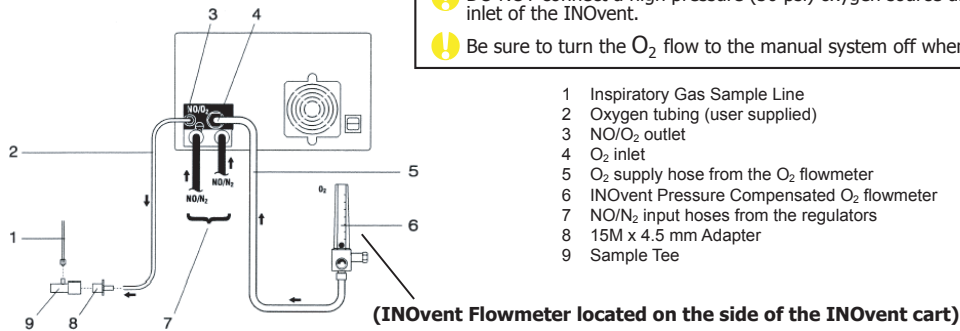
**!** If NO<sub>2</sub> levels are greater than 1.5 ppm repeat the Purge Procedure as listed in step three and then repeat the Performance Test.

## Step V: Manual NO Delivery Performance

Assemble connectors and tubing as shown in Diagram # 2.

- Using the oxygen flowmeter on the INOvent, turn on flow to the manual bagging system to 15 L/min. observe the ball float rise on the front panel.
- Verify the monitored NO value is 20 ppm ± 8 ppm.
- Reduce the oxygen flow to 1 L/min and verify that the ball float on the INOvent drops.

**Diagram #2**  
(INOvent - rear view)

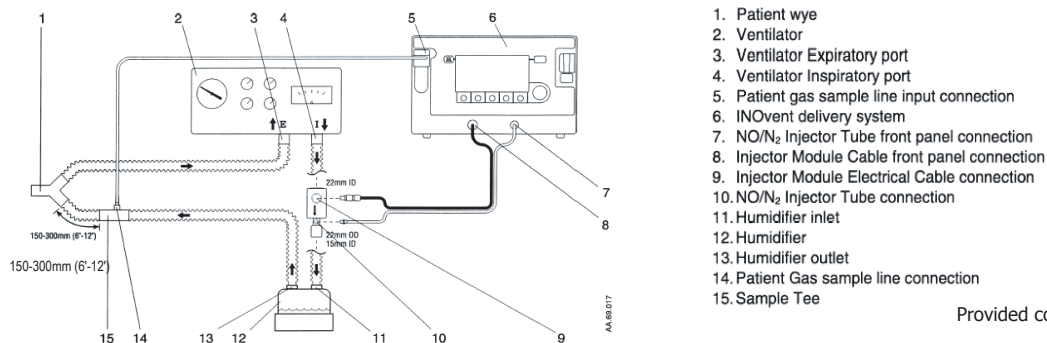


- !** DO NOT connect a high pressure (50 psi) oxygen source directly to the O<sub>2</sub> inlet of the INOvent.
- !** Be sure to turn the O<sub>2</sub> flow to the manual system off when not in use.

- 1 Inspiratory Gas Sample Line
- 2 Oxygen tubing (user supplied)
- 3 NO/O<sub>2</sub> outlet
- 4 O<sub>2</sub> inlet
- 5 O<sub>2</sub> supply hose from the O<sub>2</sub> flowmeter
- 6 INOvent Pressure Compensated O<sub>2</sub> flowmeter
- 7 NO/N<sub>2</sub> input hoses from the regulators
- 8 15M x 4.5 mm Adapter
- 9 Sample Tee

## End of Pre-Use Check Out

Typical System Connection Diagram (ICU Ventilator).



1. Patient wye
2. Ventilator
3. Ventilator Expiratory port
4. Ventilator Inspiratory port
5. Patient gas sample line input connection
6. INOvent delivery system
7. NO/N<sub>2</sub> Injector Tube front panel connection
8. Injector Module Cable front panel connection
9. Injector Module Electrical Cable connection
10. NO/N<sub>2</sub> Injector Tube connection
11. Humidifier inlet
12. Humidifier
13. Humidifier outlet
14. Patient Gas sample line connection
15. Sample Tee

Provided courtesy of INO Therapeutics  
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