

Guide for the Anesthesia Technician

AS3000[™] Anesthesia Delivery System

This guide does not replace the AS3000[™] Anesthesia Delivery System and Patient Monitor Operating Instructions. Consult each product's instruction manual for complete setup instructions.

Prior to Turning ON the AS3000:

- 1. **Ensure tight connection to gas pipelines** (O², Air and N²O). The pipeline pressure gauges should indicate in the green color zone.
- 2. Verify adequate pressure in each emergency cylinder and then close the cylinder valve.
- 3. Verify each Vaporizer is filled using its sight glass indicator.
- 4. Verify both CO² absorbent canisters are filled with fresh absorbent and locked into the absorber assembly.
- 5. Check firm connection of the patient circuit and breathing bag to the breathing system.
- 6. **Turn OFF the fresh gas flow** and disconnect the breathing circuit's Y-piece, venting the Y-piece to atmosphere.

After Turning ON the AS3000:

- 1. If 'Low Battery' message appears check proper connection to an active electrical outlet.
- 2. If the Self Test fails:
 - a. Turn OFF the AS3000 at the power switch
 - b. Wait for the flow meter backlight to extinguish
 - c. Verify the Y-piece is open to room air and no gas is flowing
 - d. Power ON the system and retry.

3. If the Leak Test fails:

a. Resolve the leak. See Possible Leak Locations (reverse side)

Or

b. Power cycle the AS3000 and BYPASS the Leak Test. This will allow the ventilator to operate with the leak.

Or

c. Use the MANUAL assist ventilation mode.



The Leak Test Results:

A leak higher than 1000 ml/min disables the ventilator. The clinician may elect to BYPASS the Leak Test to enable the ventilator to operate with the leak.

Possible Leak Locations:

- 1. **CO² absorbent canisters** realign, retighten, clean any debris from gaskets.
- 2. Fluid drain valve (bottom of absorber assembly) should be closed (horizontal position).
- 3. CO² absorber return hose is intact.
- 4. **O² Sensor metal adapter o-ring intact**, sensor threaded tightly into the metal plug, sensor o-ring intact, check that the sensor cable is plugged in at both its ends.
- 5. Bag arm base nut hand tight.
- 6. Unidirectional Valve Rings hand tight, not over-tightened.
- 7. **APL valve** set to $30 \text{ cm H}^2\text{O}$, locking ring is hand tight.
- 8. Airway Pressure Gauge fully seated.
- 9. Bellows canister secured, turned to its final stop.
- 10. Vaporizers mounted securely, fill port tight, o-rings under vaporizer intact
- 11. Patient circuit and bag replace if in doubt.
- 12. **Respiratory gas sample line** port is tightly capped.
- 13. Find a leak by listening
 - a. Seal the system by blocking the Y-piece and closing the APL valve.
 - Increase fresh gas flow to maintain an airway pressure of 60cm H²O.
 - c. Locate the leak by listening for the hissing sound.
 - d. To determine the magnitude of the leak, press the MENU key to invoke the SYSTEM tab.



Assistance is provided by phone, Monday through Friday between 9:00am and 5:00pm EST. Contact your local Representative for assistance after hours. Please set aside time between clinical cases when calling for product assistance. Call 1-800-288-2121.