

Narkomed 6000 Anesthesia Machine Check List

At the Beginning of the Day, or whenever the Machine is Moved or Serviced:

- Verify machine is connected to a live, grounded outlet
- Check for backup ventilation equipment availability and functionality (i.e. appropriately sized ambu bag)
- Check function of auxillary oxygen

Gas cylinder and pipeline supplies:

- Check for pipeline supplies of 50-55 psi
- Disconnect pipeline supplies
- After confirming fresh gas purged from system, open gas cylinders, confirm O₂ and air > 1000 psi, N₂O > 600 psi, close cylinders
- Confirm no prominent decrease in gas pressure
- Reconnect gases to pipelines.

Machine

- Turn on anesthesia machine
- Follow ventilator alphanumeric display to perform system and ventilator self-test
- Confirm leakage rate of less than 175 ml/min during the ventilator self test

Breathing System and Patient Circuit

- Check for secure connections of all hoses, fresh gas, pressure sensor, oxygen sensor, and flow sensor
- Confirm sample line is securely connected to Y-piece and water trap
- Confirm sample line is free of kinks, moisture, and water trap is not filled to maximum
- Verify CO₂ absorber is filled with fresh absorbent

Oxygen Sensor Calibration

- Remove oxygen sensor from inspiratory valve dome
- Press O₂ Cal button on monitor
- When 21% oxygen is reported, replace sensor onto inspiratory valve dome

Vaporizers

- Verify sufficient anesthetic in vaporizers
- Fill and drain valves are closed
- Confirm vaporizer interlock system only allows one vaporizer to be used at one time

APL and Patient Circuit Function

- Place second reservoir bag on end of breathing circuit, set ventilator to Manual/Spontaneous, set APL to 30 cmH₂O on Manual.
- Increase fresh gas flows or O₂ flush to pressurize system to 30 cmH₂O.
- Confirm system does not increase beyond 30 cm H₂O
- Attempt to manually ventilate second bag
- Confirm proper function of inspiratory and expiratory one-way valves
- Change APL to Spontaneous, confirm decrease pressure in circuit and inability to generate pressure in circuit.

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Fresh Gas Function

- Turn on gas to confirm smooth movements of oxygen and nitrous flow meters.
- Turn off oxygen flows to confirm nitrous flows also decreases (approximately 4:1 nitrous:oxygen)
- Confirm all flowmeters off
- Press oxygen flush to verify proper function.
- Confirm oxygen sensor increases to 90-100% Oxygen with oxygen flush.

Breathing System Leak Test

- Completely occlude Y-piece
- Turn down all fresh gas flows (minimum oxygen flow <200 ml/min should be present)
- Set APL to Manual and 50 cmH2O
- Pressurize circuit using oxygen flush to 30 cm H2O
- Confirm pressure does not decrease below 30 cmH2O
- One at a time, turn on each mounted vaporizer, repressurize system to 30 cmH2O if necessary, and confirm pressure does not decrease below 30 cm H2O
- Close all vaporizers

Scavenging System

- Verify scavenging system is connected and functional, and adjust flow so that indicator float is mid-way between the sight-glass lines.

Suction

- Verify suction is available and functional

Documentation

- Document Checklist Completion

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Between Cases:

- Verify Backup Ventilation Available
- Verify Suction Functional
- Verify Vaporizer filled and caps tight
- Verify CO₂ absorber filled and not exhausted
- Verify Flowmeters off
- Verify Circuit maintains 30 cm H₂O pressure and can ventilate test lung
- Document Checklist Completion

Mnemonic:

“ The 4 As, B, C, D”

AMBU

Absorbent

Anesthetic Vaporizers

Aspirate (suction)

Bobbins (flowmeters)

Circuit

Document