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# ANESTHESIA MACHINE CHECKOUT

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North Carolina Baptist Hospital

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Prepared by Dr. Olympio

## Machine Turned Off to STANDBY:

1. Low pressure check. Check vaporizer locks, interlocks and agent level.
2. Occlude Y-piece and perform static ventilator leak check.
3. Flush O<sub>2</sub> into ventilator, checking relief valve and scavenger (<10cmH<sub>2</sub>O)
4. Turn on patient monitor.(Datex).
5. Adjust suction for patient AND for scavenger. Walk around machine.
6. Test back-up ventilation bag, jet ventilator, emergency LMA.
7. Check oxygen pipeline and cylinder pressures, then turn cylinders OFF.
8. Test battery power with machine unplugged or mains turned off.
9. Turn machine back on and return to front of machine.

## Turn ON the machine:

1. Note minimum oxygen flow.
2. Remove oxygen sensor.
3. Calibrate the oxygen sensor to 21% and replace. Press drain button.
4. Pressurize circuit above set pressure limit, and check for:
  - High pressure alarm
  - Continuing pressure alarms
  - APL valve bleed-off at 30 cm (Aestiva)
  - Scavenger relief with APL open, holding O<sub>2</sub> flush on (<10cmH<sub>2</sub>O). Release and wait for any negative pressure.
  - Oxygen monitor now reads > 90%.
5. Connect test lung, flush and actuate manual ventilation. Check for:
  - Volume measurement
  - No obstructions nor resistance to ventilation. Stop and wait for:
  - Apnea alarm
6. Initiate mechanical ventilation (fresh gas flows off)
  - Test for inspiratory abort (or pressure limiter) with oxygen flush.
  - Check for leaks.
  - Check ventilator relief valve while increasing O<sub>2</sub>/N<sub>2</sub>O flows to the top of flowmeter.
  - Check O<sub>2</sub>/N<sub>2</sub>O ratio controller.
  - Turn off N<sub>2</sub>O flow and ventilator, remove test lung.
  - Check for resistance through vaporizers at 6 lpm O<sub>2</sub> flow.
  - Suspend alarms with "exit room" feature (or equivalent).
7. Set ventilator parameters, all devices and alarms.