

Accutron Ultra Digital IHS MACHINE CHECKLIST

AIMS: Suitable for use on: Accutron Ultra digital, 4 cylinder stands

- To ensure **power supply** is connected
- To ensure that **gas supplies are sufficient and not leaking**
- To check automatic **fail safe cut off** of nitrous oxide flow
- To ensure there are **no leaks** in the reservoir bag

Summary Checks to be performed prior to equipment use

Power Supply

1) Ensure power lead is firmly connected into the back of the digital unit and plugged in and turn on in the wall socket

Cylinder contents and leak check (note* only turn on one cylinder of the same gas at a time)

- 1) **With the Ultra Digital turned off**, open **IN USE oxygen** cylinder **wait 5 seconds**
Check cylinder contents gauge rises, **close O2 cylinder**, Check needle does not drop for a **20 second wait**.
- 2) Open **IN USE nitrous oxide** cylinder **wait 5 seconds** - new cylinder will register at approx 650 psi full. Close cylinder valve, check needle does not drop for a **20 second wait**.
- 3) Repeat leak test with full cylinders.

Oxygen Flush

- 1) With **both** oxygen & nitrous oxide cylinders open, **press the oxygen flush button**.
- 2) AA minimum flow of more than 16 LPM will be activated and the **flush LED will light up**

Failsafe Oxygen

- 1) With **both** in use oxygen and nitrous oxide cylinders turned on. Set machine at **50% mixture** with **6 LPM flow**. **Turn off** the in use oxygen cylinder.
- 2) Wait for oxygen to drain from the system. Nitrous oxide flow should cease and the **oxygen failure alarm should sound**.

Failsafe Nitrous

- 1) **re-open the O2 cylinder**. System will purge for 2 seconds and return to working flow.
- 2) **Turn off the nitrous oxide** by turning off the cylinder. Nitrous oxide should cease to flow and the nitrous oxide alarm will sound and **FAILURE NITROUS LEDS will light**. The flow will switch to 100% oxygen.
- 3) When the nitrous oxide is reintroduced to the system you will have to manually adjust the nitrous flow back to required flow rate.

Inspiratory Valve & Bag Check

- 1) **Cover common gas outlet** (using the palm of gloved hand)
- 2) **Press oxygen flush** to inflate reservoir bag
- 3) Check that the bag holds pressure and **no gas escapes** from the inspiratory valve.

Machine ready for use

Note: Ensure that a *bodox seal* is fitted to each gas cylinder point. It is advisable to retain a small stock of replacement seals (4) as these can be lost when the cylinders are changed. The nitrous oxide pressure gauge is not an indication of cylinder contents.

Machine storage procedure

Storage

- 1) Turn off **N2O cylinder**
- 2) Set the flow to **6 ltr's at 50%** wait for the **nitrous** contents gauge to drop to zero.
- 3) mute alarm (cancel/test) button
- 4) Turn off **O2 cylinder**, wait for **oxygen** contents gauge to drop to zero.
- 5) Turn off the head and unplug.

Machine ready to store

Recommended two side print

Issue 7v 12-07-2024 R A Medical Services LTD T: 01535 652 444 - info@ramedical.com

Document created by Michael Pickles - checked by James Throupe

