

DIGITAL IHS MACHINE CHECK LIST

AIMS

1. To ensure that medical gas supplies are nominally 60 psi
2. To ensure electrical supply is correct for model.
3. To check the automatic cut-out of nitrous oxide flow
4. To check reservoir bag for leaks

NOTE: The Digital machine performs self diagnosis at both start-up and during operation. When any errors are detected the unit displays EE on the % oxygen display and an error code on the L.P.M. flow display.

If an error code appears, discontinue use immediately and contact R A Medical Services for further advice - quoting the error code displayed on the unit.

Summary Checks to be performed prior to equipment use

Failsafe (oxygen)

- 1) With both oxygen and nitrous oxide medical gas supply connected and machine set at 50% mixture with 5 L.P.M. flow turn off oxygen supply - either at the oxygen E sized cylinder on the 4 cylinder stand or disconnect the oxygen probe from the gas specific wall terminal.
- 2) Wait for oxygen to drain from the system. Nitrous oxide flow should cease and the oxygen failure alarm should sound.

Failsafe (nitrous)

- 1) Turn oxygen supply back on - either by opening the cylinder or re-connecting the oxygen hose to the gas specific wall terminal.
 - 2) Turn off nitrous oxide supply by turning off cylinder or disconnecting the nitrous oxide probe from the gas specific wall outlet.
- Nitrous oxide should cease to flow and the nitrous oxide failure alarm should sound.

Oxygen Flush

- 1) With both oxygen & nitrous oxide supplies connected, press the oxygen flush button.
- 2) 'Flush' should be displayed and oxygen flow from the machine outlet

Inspiratory Valve & Bag Check

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

Non-Return Valve Check

- 1) It should not be possible to inflate the reservoir bag when blowing into the outlet (using corrugated fresh gas hose).

Machine ready for use

Turn over page for mobile 4 cylinder stand checks - if applicable

MOBILE 4 CYLINDER STAND CHECK LIST

NOTE: 4 cylinder stands should be fit with four gas cylinders at all times - 2 off each oxygen and nitrous oxide. These should be identified as FULL and IN-USE.

High Pressure Leak Test

- 1) Turn off the Digital flowmeter power at source.
- 2) Turn on one oxygen and one nitrous oxide E size cylinder.
- 3) Observe readings on cylinder pressure gauges.
- 4) Turn off both oxygen and nitrous oxide cylinder fully.
- 5) Needles on both gauges should remain constant without any immediate fall in pressure.

Note: Ensure that a bodox seal is fitted to each gas cylinder point. It is advisable to retain a small stock of replacement seals as these can be lost when the cylinders are changed.

The nitrous oxide pressure gauge is not an indication of cylinder contents.