MADM™
ANESTHESIA DELIVERY MODULE

Quick Start Guide

THORNHILL
MEDICAL

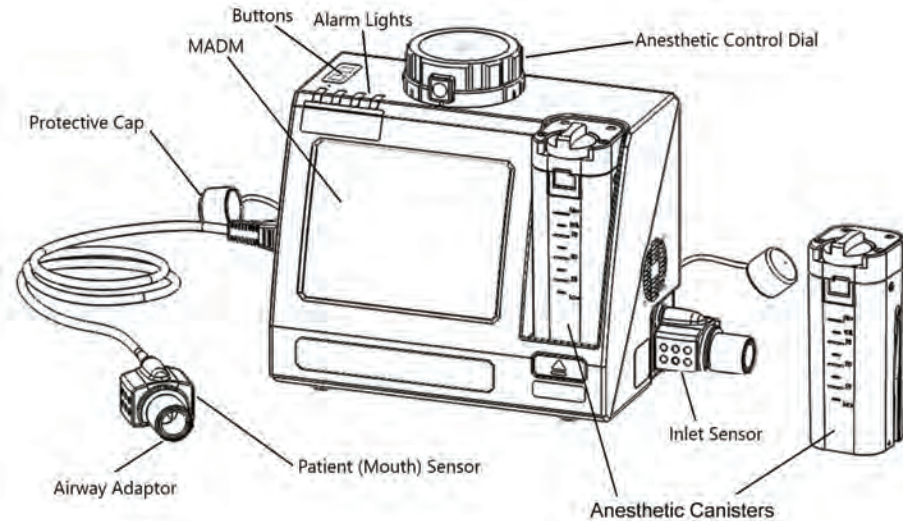**1.** Fill the MADM™ ISO or SEVO canister with the appropriate liquid anesthetic.

2. Place MADM™ on a level surface or attach the clamp and orient it in an upright position.

3. Insert the anesthetic canister into MADM™.

4. Connect the patient mouth anesthetic sensor to MADM™. Ensure an airway adaptor is installed in the sensor.
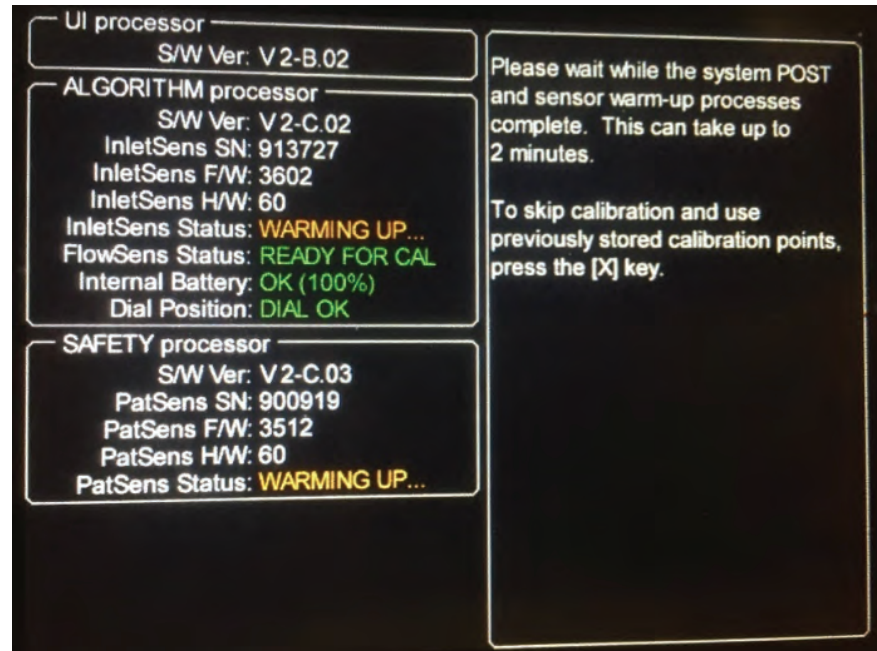
5. Ensure that the inlet anesthetic sensor is fully inserted into MADM™.

Buttons   Alarm Lights

MADM

Anesthetic Control Dial

Protective Cap

Airway Adaptor

Patient (Mouth) Sensor

Inlet Sensor

Anesthetic Canisters

6. Connect external power and turn MADM™ on by pressing the power button (on the REAR panel) to the on position.

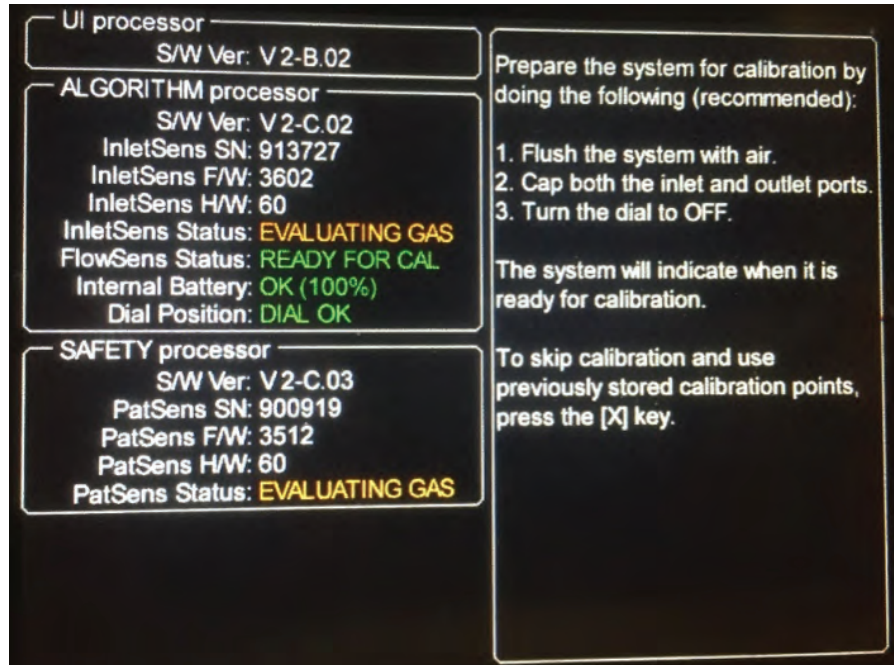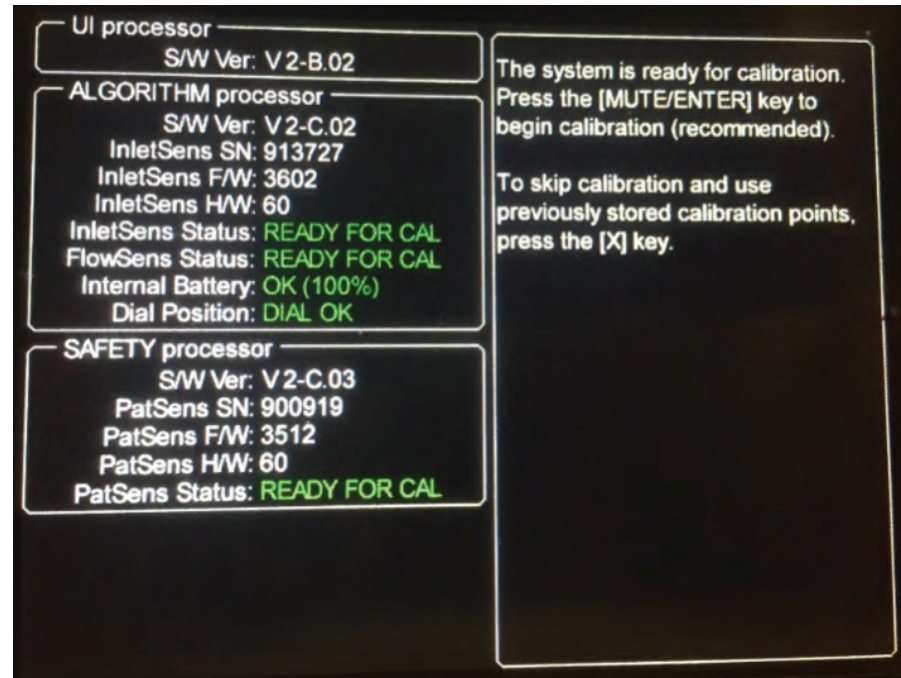**7.** Allow the MADM™ inlet and patient anesthetic gas sensors warm up.

UI processor
S/W Ver: V 2-B.02

ALGORITHM processor
S/W Ver: V 2-C.02
InletSens SN: 913727
InletSens F/W: 3602
InletSens H/W: 60
InletSens Status: WARMING UP...
FlowSens Status: READY FOR CAL
Internal Battery: OK (100%)
Dial Position: DIAL OK

SAFETY processor
S/W Ver: V 2-C.03
PatSens SN: 900919
PatSens F/W: 3512
PatSens H/W: 60
PatSens Status: WARMING UP...

Please wait while the system POST and sensor warm-up processes complete. This can take up to 2 minutes.

To skip calibration and use previously stored calibration points, press the [X] key.

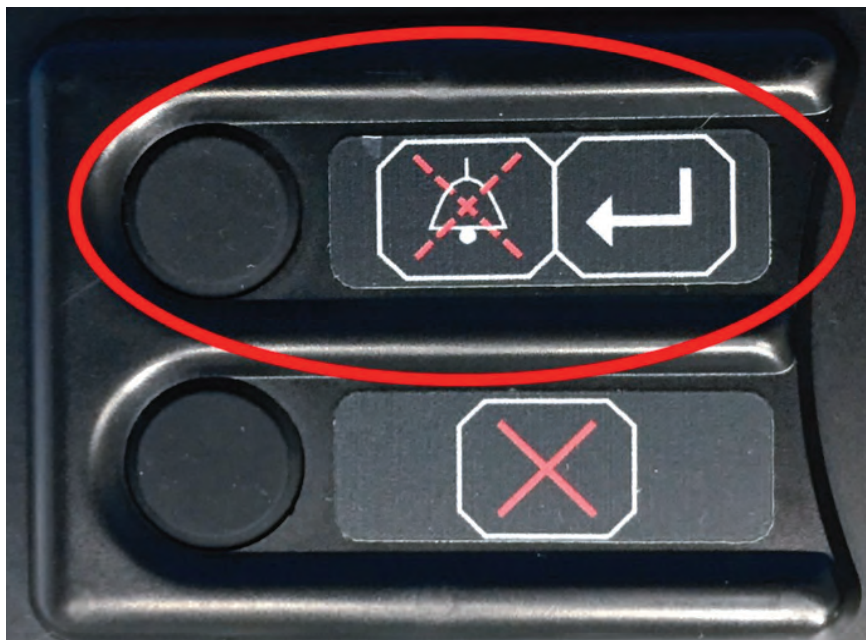**8.** Prepare MADM™ for the pre-use Self-Check by following the onscreen instructions.

NOTE: If the "EVALUATING GAS" onscreen message persists for either anesthetic gas sensor, flush that sensor with fresh gas (preferably air).

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S/W Ver: V 2-B.02

ALGORITHM processor
S/W Ver: V 2-C.02
InletSens SN: 913727
InletSens F/W: 3602
InletSens H/W: 60
InletSens Status: EVALUATING GAS
FlowSens Status: READY FOR CAL
Internal Battery: OK (100%)
Dial Position: DIAL OK

SAFETY processor
S/W Ver: V 2-C.03
PatSens SN: 900919
PatSens F/W: 3512
PatSens H/W: 60
PatSens Status: EVALUATING GAS

Prepare the system for calibration by doing the following (recommended):

1. Flush the system with air.
2. Cap both the inlet and outlet ports.
3. Turn the dial to OFF.

The system will indicate when it is ready for calibration.

To skip calibration and use previously stored calibration points, press the [X] key.

9. MADM™ will indicate when ready to complete the pre-use Self-Check.

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ALGORITHM processor
S/W Ver: V 2-C.02
InletSens SN: 913727
InletSens F/W: 3602
InletSens H/W: 60
InletSens Status: READY FOR CAL
FlowSens Status: READY FOR CAL
Internal Battery: OK (100%)
Dial Position: DIAL OK

SAFETY processor
S/W Ver: V 2-C.03
PatSens SN: 900919
PatSens F/W: 3512
PatSens H/W: 60
PatSens Status: READY FOR CAL

The system is ready for calibration. Press the [MUTE/ENTER] key to begin calibration (recommended).

To skip calibration and use previously stored calibration points, press the [X] key.

10. Initiate the MADM™ pre-use Self-Check by pressing the [MUTE/ENTER] button (on the TOP panel).

11. If the pre-use Self-Check is OK, MADM™ will proceed to the Weight Entry screen. Follow the onscreen instructions to specify and confirm the appropriate weight-range for the patient. The anesthetic dial will be used to select the weight-range and the [MUTE/ENTER] button to confirm the selection. The dial must be returned to the OFF position to continue.

NOTE: If the pre-use Self-Check fails, or the incorrect patient weight-range is confirmed, MADM™ must be powered off and this process must be restarted.
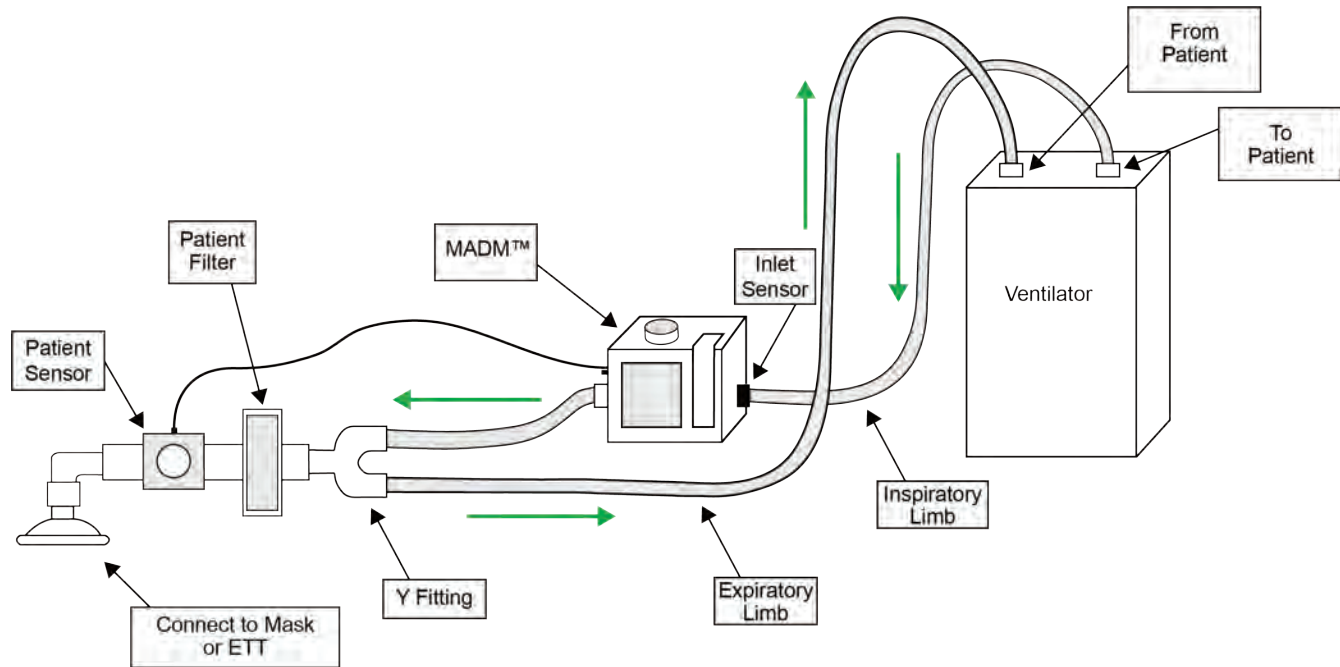

Use the dial to specify the appropriate weight-range for the patient, then press the [MUTE/ENTER] key to commit your selection.
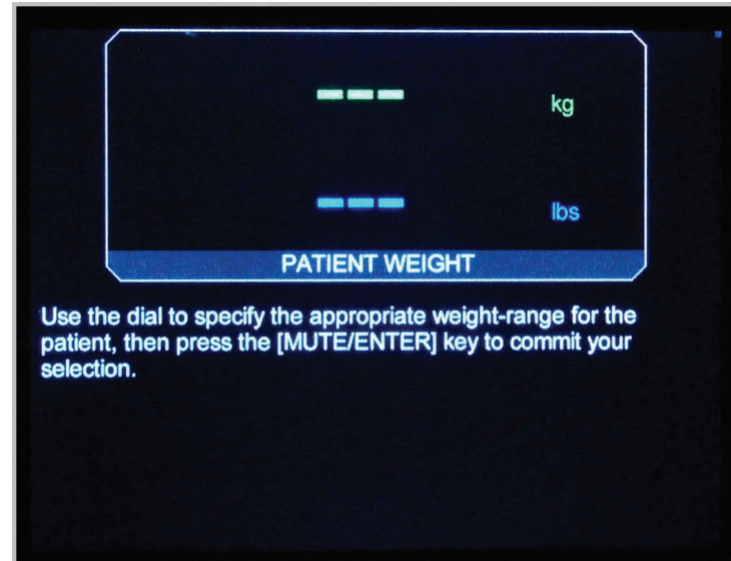
12. Connect MADM™ to the open or closed-circuit ventilator. Use the supplied 36" patient tubing to connect the ventilator outlet to the MADM™ inlet sensor.
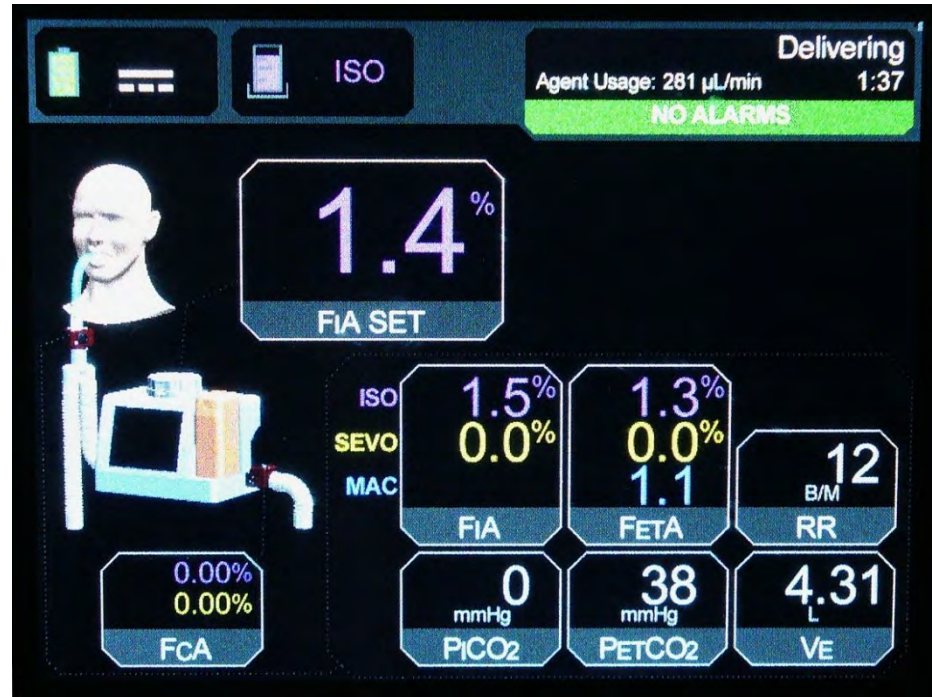
Open-Circuit
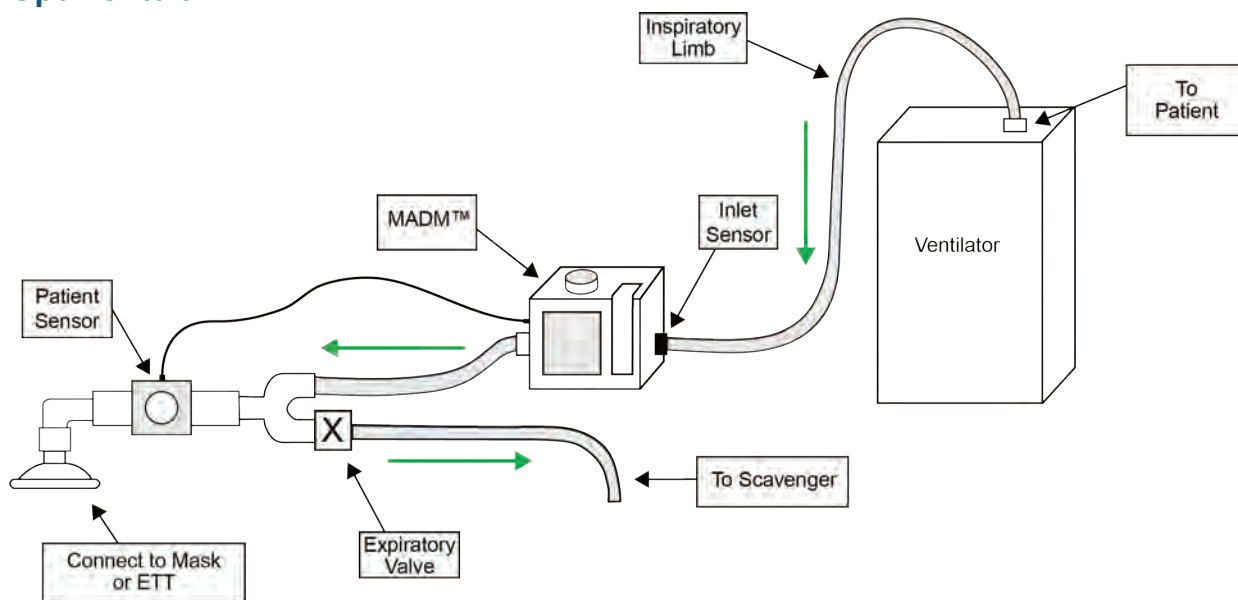
Closed-Circuit

13. Start ventilating the patient and set the desired anesthetic concentration (FIA SET) using the MADM™ anesthetic control dial.

MADM™ Anesthesia Delivery Module Quick Start Guide

This guide contains abstracted information from the MADM™ Operator's Manual (P/N 124764). Please refer to the latest revision for complete information on the MADM™.

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