SUPERA | ANESTHESIA INNOVATIONS

Operators Manual

Model M2000

*shown with optional equipment

For Veterinary Use Only

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Examination and Preparation for Use

Thank you for ordering an Supera Anesthesia Innovations M2000 Anesthesia machine

We are delighted to have you as a Supera Anesthesia Innovations customer and want you to be completely satisfied with your purchase. Please inspect the contents of your order to see if everything is as you expected. Should anything not be exactly right or if anything was damaged in shipping, please contact your sales representative right away for help.

Our goal is to make your new machine as easy to use and care for as possible.

This device is meant to be operated under the normal surveillance and control of a veterinarian trained in its use. However, you need to know more about this device than just how to operate it.

Please read this manual in its entirety before using the machine.

If you have any comments or questions, we welcome the opportunity to address them.

Please contact us directly at 877-620-1500.

Thank you!

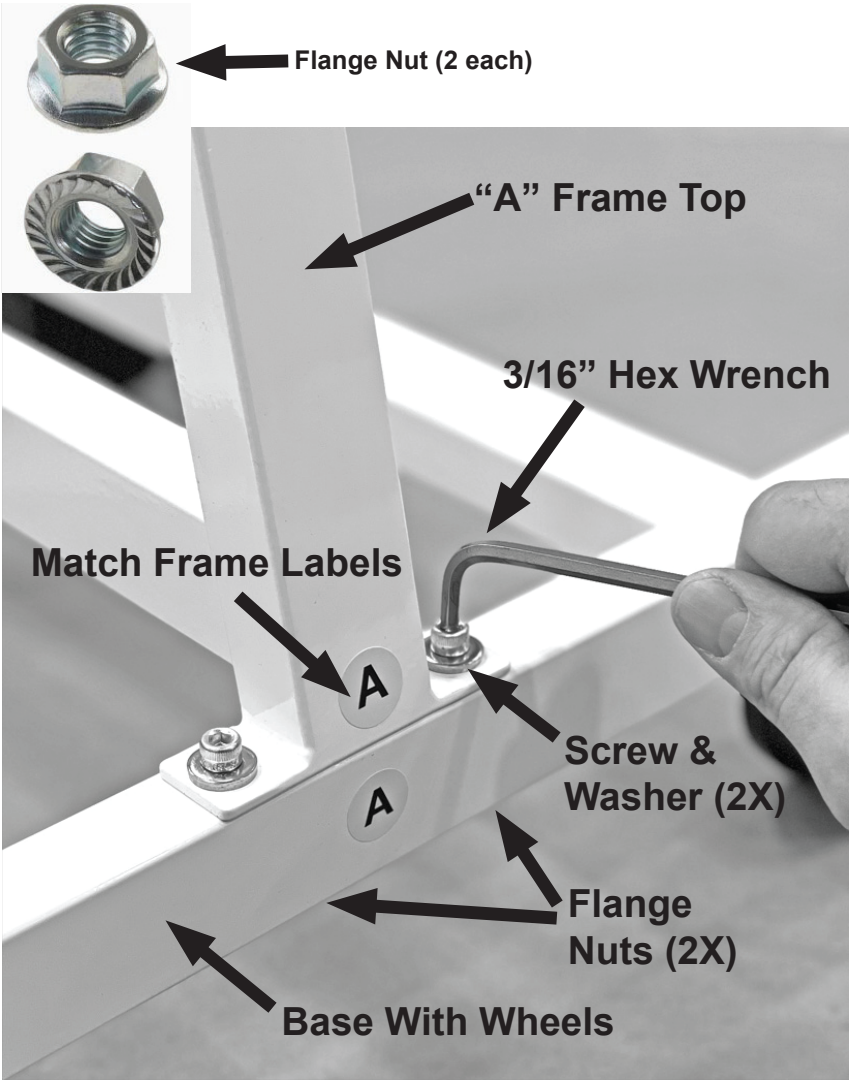
Proudly 100% American
Made In Oregon!

Frame Assembly

1.Carefully unpack the white wheeled base and “A” frame from the box.

2. Align the “A” frame tabs with the wheeled base by matching their labels. Shown with the letter **A** below.

3. Install the two mounting screws and washers through the frame and fasten with the flange nuts on both sides of the “A” frame.



Machine Assembly

*** NOTE: THIS REQUIRES TWO PEOPLE TO SAFELY ASSEMBLE ***

1. Carefully unpack the top assembly and frame from the box

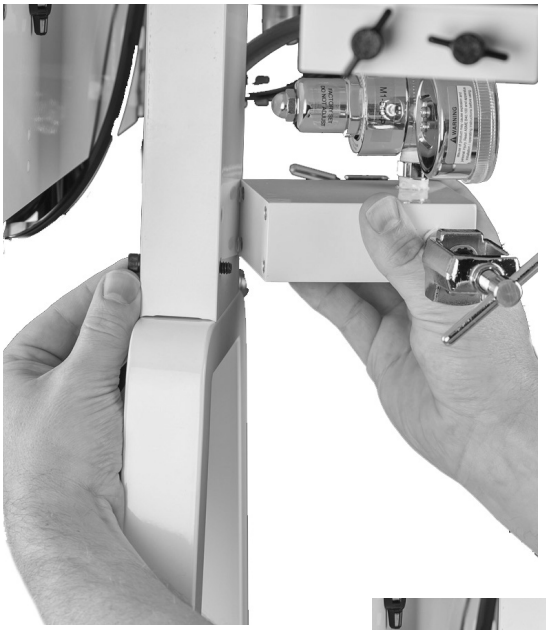
2. Align the top to the frame as shown.

3. Assemble the top portion with the frame by installing the two 1/4-20 X 1 3/4” long screws and washers provided.

4. Tighten both screws with the provided 3/16” allen wrench tightly.

Oxygen Supply

Optional E-Tank Manifold
P/N MA2100



1st Step
Hand tighten 1/4-20 cap screws (4 each)

2nd Step
Using 3/16” hex wrench provided, tighten 1/4-20 cap screws (4 each)

Oxygen supply from optional e-tank manifold

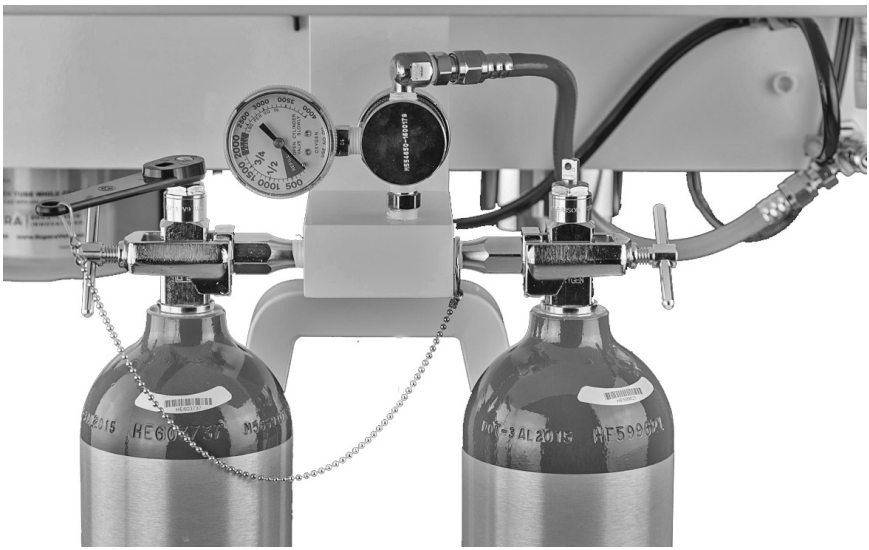
3rd Step
Attach green oxygen line to flow meter. ***Lightly*** tighten with wrench.

NOTE: The fittings have an O-ring to seal the joint
**** DO NOT OVER TIGHTEN ****

WARNING!
NEVER USE PETROLEUM BASED PRODUCTS ON OR NEAR THE OXYGEN SUPPLY.

NOTE: Do not over tighten the e–tank yoke knobs (“T” shaped handles)

If the e–tank leaks, change the seal.



Finished assembly

Anesthesia Machine Operation
&
Optional Accessories

Safety Pop Off Valve

Normal Operation - pop off valve is OPEN
Black knurled knob is turn counter clockwise to open the valve 100%

In this position the breathing circuit is fully open. The manometer should read "0" with slight fluctuations during respiration. Squeezing the rebreathing bag should not create pressure in the breathing circuit.

User Error!
Pop off valve is left closed in leak test position
The black knurled knob is turned clockwise until it stops

In this position the breathing circuit is partially closed but will leak at 0.5 cm H2O. This will not cause injury to the patient, however depressing the push-button valve to ventilate the patient would allow excessive pressure and could injure the patient.

This setting is designed to prevent patient deaths associated with leaving the pop-off valve closed but it is not recommended for normal operation.

Manual Ventilation - pop off valve is OPEN
Black knurled knob is open with push-button valve depressed.

In this position the breathing circuit is closed but will leak at pressures of 20-25 cm H2O. This allows enough pressure to manually ventilate the patient without risking excessive pressure (which can cause pulmonary damage and death).

Machine Leak Test

1. Close pop off valve (turn knob clockwise)

2. Depress the plunger valve in the center and hold

3. Plug the end of the rebreathing hose

4. Add a rebreathing bag to the rebreathing head.

5. Using the machines flow meter, add pressure to the system until the manometer reads 30cmH20

Hold the pressure for ten seconds. If it doesn't drop faster than 1 cm H2O per second, the machine is sealed enough for use.

If it does drop faster, check your rebreathing bags and hoses for leaks. Glass cleaner works well for this. Make sure the canister and clear valve domes are tight

**** * OPEN THE VALVE ONCE YOU ARE FINISHED LEAK TESTING * ****

Optional Features & Accessories

I.V. Pole (included)

Shown with optional
universal control arm
for use with Bain circuits

P/N MA2013
With safety pop off valve

Waste Gas Evacuation

F-AIR Charcoal Canister Kit (optional equipment)
P/N EVC555

F-AIR canister - Optional
Will remove the waste gas from the anesthesia machine for approximately 8-12 hours. After that time, the canister is replaced.

F–Air Canister Bracket - Optional
Install in the lower part of “A” frame using the screw and washer provided.

Waste Gas Evacuation

Optional waste gas interface valve
P/N EVC630 for use with fan based evacuation systems like our EVC3000

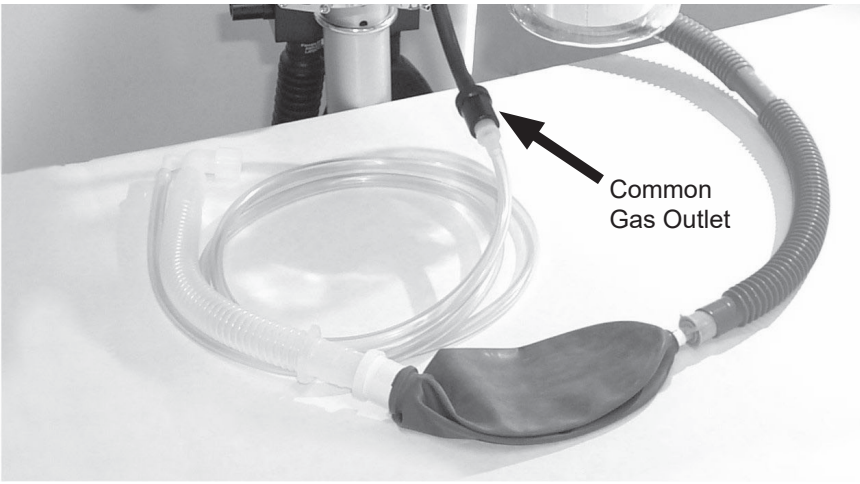
Optional waste gas interface valve
P/N EVC629 for use with vacuum pump based evacuation systems like our EVC3100

Heavy Duty Rebreathing Bags

Part Number	
ACC520	500cc Rebreathing Bag
ACC521	1L Rebreathing Bag
ACC522	2L Rebreathing Bag
ACC523	3L Rebreathing Bag
ACC524	4L Rebreathing Bag
ACC525	5L Rebreathing Bag

Circuits

P/N CIR518 - Non-Rebreathing Modified Jackson-Rees



The Non–rebreathing system connects to the common gas outlet of the anesthesia machine.

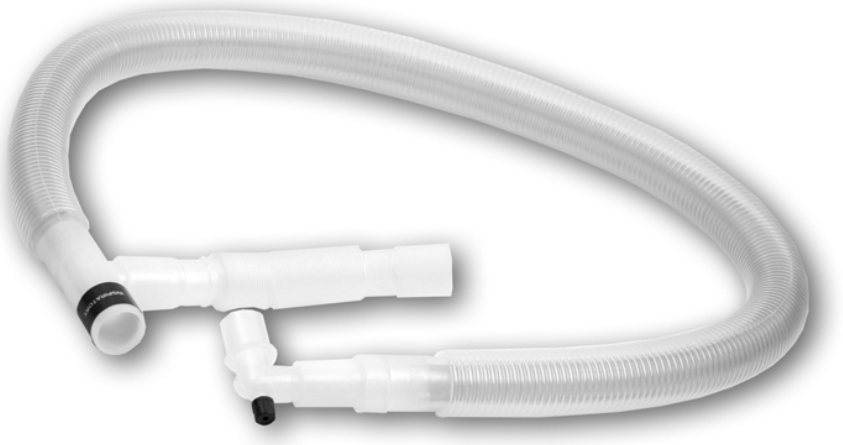
1. Disconnect the common gas outlet from the rebreathing head. (quick disconnect fittings)

2. Plug the 15mm male connector from the non–rebreathing system into the common gas outlet of the anesthesia machine.

3. Connect the blue exhaust port on the bag of the non–rebreathing system to the 19mm blue evacuation tubing connected to the waste gas interface device or to any other waste gas evacuation device (outside air, F–air canister, etc.)

Circuits

P/N CIR529 & CIR529P Rebreathing Unilimb circuits



Unilimb design removes clutter and disorder from the anesthesia field. Patients exhaled breath acts as a thermal wrap to maintain the temperature and humidity of inspired gases. The swivel connector at the patient end eliminates kinking of the tubing.

This circuit attaches to the “Inhalation” and “Exhalation” ports on the rebreathing head (CO_2 Absorber)

P/N CIR529 Adult (blue inner tube)
Recommended for Patients weighing above 20kg

P/N CIR529P Pediatric (Pink or Green inner tube)
Recommended for Patients weighing under 20kg

MAINTENANCE

Anesthesia Machine

The anesthesia machine should be serviced by a certified technician. Only certified service companies will have the factory specifications and access to original replacement parts.

Annual Preventative Maintenance Service
Service will include:
Pre–service low and high pressure test. Inspection and replacement of hoses, gaskets and seals as needed. Measure pressure relief valve resistance. Inspect unidirectional valves. Inspection of evacuation system. Inspection of oxygen system. Verification of vaporizer concentration output. Final low and high pressure test.

Contact us for a list of certified service companies.

Daily Inspection - Leak Test
Before each use check for pressure leaks in the machine. Also make certain the waste gas evacuation system is working properly.

Warranty / Return Policy

Supera Anesthesia Innovations warrants that each product or part shall be free from defects in workmanship and materials, under normal use and with appropriate maintenance, for 10 (ten) years from the date of purchase. For plastic, rubber and disposable parts or items, Supera Anesthesia Innovations warrants only that each such part and item shall be free from defects in workmanship and materials at the time of delivery.

This warranty shall be void for any product that has been altered, defaced or removed from the original Supera Anesthesia Innovations product.

Supera Anesthesia Innovations shall not be liable for any damage, injury or loss arising out of the use of the product, whether as a result of a defect in the product or otherwise, if, prior to such damage, injury or loss, the product was (1) damaged,misused, or misapplied; (2) repaired, altered or modified by persons other than Supera Anesthesia Innovations; (3) not installed in strict compliance with the applicable codes and ordinances; (4) not installed by Supera Anesthesia Innovations or an authorized Supera Anesthesia Innovations dealer.

UNDER NO CIRCUMSTANCES SHALL SUPERA ANESTHESIA INNOVATIONS BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES AS THOSE TERMS ARE DEFINED IN THE UNIFORM COMMERCIAL CODE.

All items returned for service or repair are the responsibility of the customer. Proper packing methods should be used in returning items to Supera Anesthesia Innovations.

SHIPPING POLICY

1. Do Not Sign The Bill Of Lading Until You Have Inspected The Box Or Crate.

2. Examine the box AS it is delivered and BEFORE the truck/driver leaves.

3. If there is any evidence of damage when it arrives, note it in detail with the phrase “possible concealed damage” on the bill of lading and immediately call the office for instructions before the truck/driver leaves if at all possible.

4. If there is obvious damage such as a hole in the box, a crushed box, etc., refuse the shipment. The product will then go back to the freight company’s terminal where they are entirely responsible.

5. Open and inspect your product as soon as possible. DO NOT WAIT.

6. If you find damage, take as many photographs of everything as soon as you can and email them to CS@superavet.com.

7. Note: unless the following procedures are followed correctly and we are notified within ten (10) days, SUPERA LLC cannot accept any responsibility for the problems that may ensue.

DO NOT RETURN ANY DAMAGED GOODS TO SUPERA LLC WITHOUT PRIOR AUTHORIZATION OF SUPERA LLC AND THE CARRIER.

KEEP ALL PACKAGING!

DO NOT RETURN ANY DAMAGED ITEMS UNTIL SHIPPING INSTRUCTIONS ARE RECEIVED.

ALL CLAIMS MUST BE FILED WITHIN TEN (10) DAYS OF RECEIPT OF GOODS.

IF YOU HAVE ANY QUESTIONS CONTACT SUPERA DIRECTLY AT 503-723-5068.

DOCUMENTATION

Date purchased:

Purchased from:

Machine serial number:

Vaporizer serial number:

Machine service information

Service Date:
Service information:

Service Date:
Service information:

Service Date:
Service information:

SUPERA

ANESTHESIA INNOVATIONS

Contact Information

(503) 723-5068 or (877) 620-1500 toll-free

E-Mail: info@superavet.com

1220 NW Noble Drive, Estacada OR 97023

Training videos available on our website

www.SuperaVet.com