

Eagle Eye Anesthesia Machines Models 50 and 150

Operation Manual

**11233 St. Johns Industrial Pkwy S.
Suites 1 and 2
Jacksonville, FL 32246
800-760-6976 or 904-739-4721**

www.eagleeyeanesthesia.com



Rev. 1/22

Product Information
(Keep for your records)

Machine / Model: _____

Serial Number: _____

Date of Purchase: _____

Vaporizer (if applicable): _____

Model: _____

Serial Number: _____

Accessory Items: _____

Notes

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Mission Statement / Description of Product

Mission Statement

To design and deliver high-impact enduring anesthetic machine products and service solutions to the veterinary community. To dedicate all of our efforts to every client and their staff's success by building trust and personal accountability in all relationships.

The Eagle Eye Models 50 and 150 (Platinum Series)

The Eagle Eye Models 50 (Platinum Series) and 150 (Platinum Series) are non-rebreathing gas anesthesia machines which incorporate an oxygen flowmeter, an oxygen flush valve, a bracket for holding two charcoal scavenging canisters, one or two handles (Model 150 only) and a protective stainless steel plate. The Model 50 is mounted on a pole and includes a 5-wheeled base. The Model 150 is a table top unit.

Isoflurane, or sevoflurane, vaporizers are available to provide anesthesia to the patient.

The Eagle Eye Models 50 and 150 (Standard Series)

The Eagle Eye Models 50 (Standard Series) and 150 (Standard Series) are non-rebreathing gas anesthesia machines which incorporate an oxygen flowmeter, one handle (Model 150 only) and a protective stainless steel plate. The Model 50 is mounted on a pole and includes a 5-wheeled base. The Model 150 is a table top unit.

Isoflurane, or sevoflurane, vaporizers are available to provide anesthesia to the patient.

A Message from the President

Dear Customer,

Congratulations and thank you for purchasing an Eagle Eye Model 50 or Model 150.

The quality of our products allows us to offer a great warranty:

Your new Model 50 / 150 comes with a 10 year warranty. And, if we provide yearly service, we will extend the warranty for another 5 years! ¹

We couldn't offer such a long warranty unless we paid strict attention to detail and used the highest quality materials and components available. "If you're not going to have problems, why not offer a long warranty?"

We'll also come to your facility to provide service. Call and ask for details. ²

This owner's manual should answer the vast majority of questions you have. If not, call us. We have multiple phone lines with real people answering them. We do have an answering machine to cover calls if all lines are busy or for afterhours assistance, but no "press 1, press 2, or press 3" nonsense.

Ken De Cray
President

1 Refer to Product Warranty, page 16 for complete warranty details.

2 Our service area covers 28 states. Models 50/150 can be easily shipped to our facility for service.

Examination of Shipping Carton and Damaged Contents

Upon delivery please examine shipping carton for signs of external damage.

If carton is damaged externally, and contents also have been damaged, you must save all packaging for examination by the delivering carrier's representative.

If contents are damaged, you must contact the delivering carrier and make an immediate claim for damages.

The Sender (Eagle Eye Anesthesia) is not allowed by the carrier to report the damages or file a claim on your behalf.

Damages will be examined by the carrier's representative at your location.

Immediately after contacting the delivering carrier, call us, Eagle Eye Anesthesia Inc., at 800-760-6976.

Although we cannot be held responsible for damage in transit, we will gladly assist in the preparation of any claim. We also will make an immediate effort to repair, or replace, the damaged merchandise.

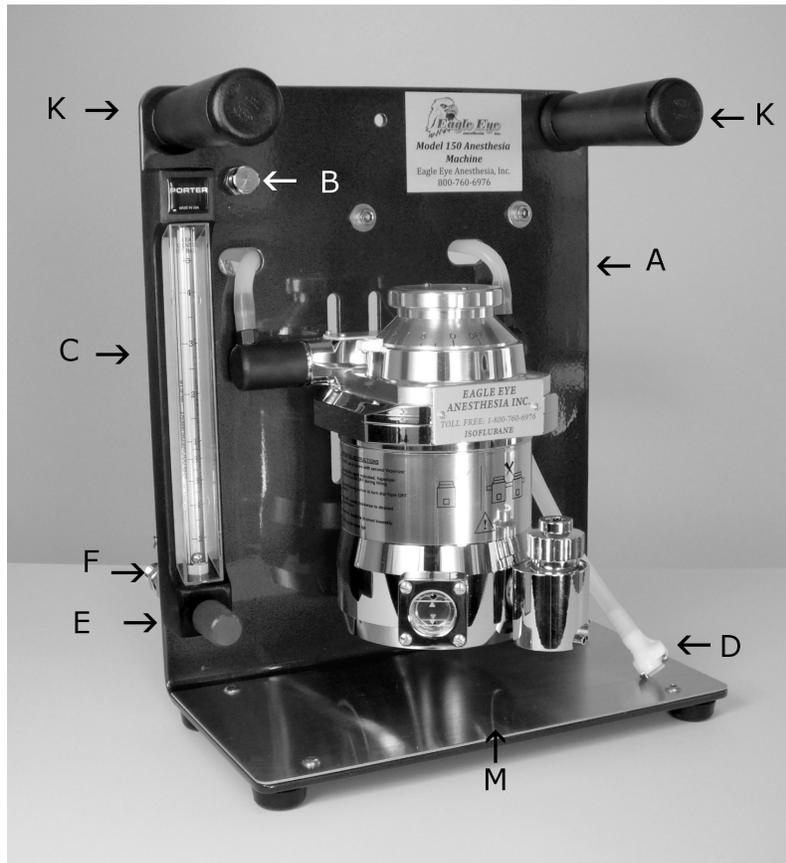
Assembly Instructions for The Eagle Eye Model 50

Please refer to the Eagle Eye Model 50 labeled diagrams for component location and identification.

- 1) Remove the machine and all of the components from its packaging.
- 2) Carefully lay the Eagle Eye Model 50 machine on a secure flat surface on its “back”.
- 3) Locate the Model 50 Pole Clamp (R) on the bottom of the machine and loosen the 2 Pole clamping screws (S) 1-2 turns (complete removal is not necessary). This will allow the 2 parts of the clamp to separate slightly and allow full insertion of the pole into the clamp.
- 4) Insert the non-tapered end of the chrome pole (T) into the Model 50 Pole Clamp (R). The pole should slip completely into the Model 50 Clamp (R) approximately seven eights of an inch deep (7/8”).
- 5) After confirming that the pole is completely inserted, the 2 Pole clamping screws (S) can be tightened securely. Tightening both screws evenly (by observing the gap between the parts) will provide the most secure attachment.
- 6) Place the wheeled base on the floor.
- 7) It is advised that two people carefully lift the Model 50 machine with the secured pole and insert the tapered end of the chrome pole (T) into the base.
- 8) Connect the green oxygen hose (supplied) to the Oxygen Supply Fitting (F) located behind the flowmeter.



Parts and Features Model 50 and Model 150



EEA Model 150 (Platinum series) labeled diagram (front)



EEA Model 150 (Platinum series) labeled diagram (back)

Component Identification

**Refer to Model 150 and Model 50 labeled diagrams
for component location.**

A) Non-rebreathing L Bracket - A structural platform on which the oxygen flowmeter, oxygen flush valve, double charcoal scavenging canister bracket, carrying handles and a protective stainless steel plate are attached.

B) Oxygen Flush Valve - (Platinum Series only) When pressed, the valve will provide oxygen directly to the breathing system (bypassing the vaporizer). The valve has been modified to provide a lower or higher rate of delivery dependent on the amount of pressure applied to the valve button.

C) Flowmeter - Regulates the volume of oxygen going into the anesthesia machine. Flowmeter markings indicate flow rate in liters per minute (0-4 LPM) and is measured at the center of the ball.

D) Common Gas Outlet (CGO) - The CGO is an outlet which combines the oxygen and anesthetic from the flowmeter and vaporizer (and also oxygen from the flush valve when depressed). This combination of gas can then be routed to either an induction chamber or a non-rebreathing circuit / nose cone.

E) Needle Valve Assembly -The needle valve assembly precisely controls the oxygen flow as part of the flowmeter. Turning the needle valve knob counterclockwise opens the valve and increases the flow. Turning the needle valve clockwise decreases the flow and closes the valve. The needle valve incorporates a stopping mechanism at the closed position to prevent overtightening. Overtightening can damage the needle valve. Damage caused by over tightening is NOT covered by warranty. It is recommended to: CLOSE THE VALVE ONLY UNTIL BALL HITS THE BOTTOM AND STOPS MOVING.

F) Oxygen Supply Fitting (Back) - The oxygen supply hose connects to the fitting behind the flowmeter. This connection uses a DISS fitting (Diameter Indexed Safety System). This system prevents any other gas fittings other than oxygen to be connected.

G) Vaporizer Mounting Area - The Non-rebreathing L Bracket is pre-drilled to securely mount most precision vaporizers to the Models 50 / 150 machine .

K) Carrying Handles - Aluminum carrying handles with rubber grips. Two are included on the Platinum Series, one on the Standard Series.

Component Identification (Continued)

L) Scavenging Canister Bracket - (Platinum Series only) - Holds 2 standard size charcoal scavenging canisters.

M) Protective Plate - Stainless steel protective plate.

R) Model 50 Pole Clamp - **(Model 50 only)** - A solid aluminum mount on the bottom of the Non-rebreathing L Bracket which secures the machine to the mounting pole by tightening the Pole Clamping screws.

S) Pole Clamping Screws - **(Model 50 only)** - Two (2) screws located on the front face of the Model 50 Pole Clamp which provide a secure means of fastening the Model 50 to the mounting pole.

T) Chrome Pole - **(Model 50 only)** - 1-3/4 inch diameter chromed steel pole which is inserted into the wheeled base and mounts the Model 50 machine.

Functional Tests

Checking the Flowmeter and Needle Valve

With oxygen supply turned on (50 PSI recommended operating pressure), rotate needle valve counterclockwise to confirm smooth movement of the indicator ball within the flow tube as well as through the full range of the flowmeter. When turned clockwise to the stopping point, valve should close completely and ball should rest at bottom of the flow tube. If flow is not completely shut off, the ball may hover above the bottom of the flow tube or move slightly while resting. The needle valve may need adjustment. Call for instructions.

Checking the Oxygen Flush Valve

The oxygen flush valve is designed to remain closed when not in use. Testing involves removing the far end of the flush valve hose from its attachment point, placing the end into a small cup of water, and look for any bubbles coming from the hose. There should be no oxygen / bubbling coming from the hose. Dry the end of the hose well and return to its attachment point. If there is bubbling present the valve will need to be replaced. Call for instructions.

Operation

- Connect the green oxygen supply hose (50-55 PSI required) to the oxygen supply fitting.
- Fill vaporizer with appropriate anesthetic several hours prior to use. This will allow the wick system to be completely saturated when used.
- Adjust oxygen flowmeter to the desired flow rates to meet or exceed the physiologic needs of the patient.
- Adjust vaporizer dial to desired percentage of anesthetic agent.
- For guidelines on induction and anesthesia techniques, specific species requirements, etc. please refer to current veterinary anesthesia protocols.

Precautions

- Confirm that the oxygen supply exceeds what will be needed for the planned procedures as well as potential unforeseen emergency situations.
- Confirm that the oxygen supply is turned on.
- Confirm that the vaporizer has been filled with anesthetic.
- Never invert or tilt the vaporizer while it contains anesthetic liquid.
- The use of a scavenging system is required to avoid anesthetic gasses contaminating the workplace.

Maintenance

The following routine maintenance procedures should be followed to insure long lasting and trouble-free service from your Eagle Eye Anesthesia Machine.

- Yearly service is recommended for Anesthesia Machine and Vaporizer.
- Perform functional tests periodically to insure proper operation.
- Inspect machine, connections, rubber / silicone parts for signs of looseness, damage or wear.
- Damp dust the exterior of the machine or clean with a soft cloth.
- If deep cleaning is needed, only use water with liquid soap, dilute mixture of chlorhexidine, or glass cleaner. Other cleaning agents or harsh chemicals can damage the finish and will void the warranty.
- Do not allow cleaning agents to infiltrate into sensitive areas (Vaporizer, Oxygen Flush Valve, Flowmeter).
- When needed, disinfect with a dilute mixture of chlorhexidine solution (1 tablespoon per 0.5 gallon of water).
- Avoid contact with corrosive liquids such as saline solutions and other IV fluids which are detrimental to metal components. These fluids can cause severe corrosion and can render components inoperable and will void the warranty.
- Turn off gas supply at the end of the day.

Troubleshooting Guide

<u>Observation / Problem</u>	<u>Possible Cause</u>	<u>Solution / Corrective Action</u>
Difficulty in inducing and/or maintaining proper anesthetic depth. "Patient will not go to sleep or stay asleep as expected."	Vaporizer causes: Calibration low, vaporizer leak.	Vaporizer requires service. Call for assistance.
	Flush valve leaking.	Replace faulty valve. (see: Functional Tests) Call for assistance.
Flowmeter will not shut off completely.	Needle valve worn or adjustment needed	Valve may be worn and need replacement or adjustment needed. Call for assistance.
Oxygen flush valve will not shut off completely.	Debris caught in the valve / Faulty valve.	Replace Faulty valve. Call for assistance.

Product Warranty

This warranty is given in place of all other warranties, expressed or implied, of merchantability, fitness for a particular purpose or otherwise.

No statement or claim about the product by any employee, agent, representative or dealer of Eagle Eye Anesthesia, Inc. ("Eagle Eye") shall constitute a warranty by Eagle Eye Anesthesia, Inc. or give rise to any liability or obligation of Eagle Eye Anesthesia, Inc.

Eagle Eye Anesthesia Machine Warranty

Eagle Eye warrants to the original purchaser of new Eagle Eye anesthesia machine(s) those products and components manufactured by Eagle Eye (except for components listed in "Items of Exclusion" noted below), to be free from defects in workmanship and materials under normal interior use and service, and with recommended maintenance and upkeep, for a period of ten (10) years measured from the date of delivery to the original user. For purchasers whose business lies within an area where Eagle Eye offers annual on-site maintenance service, this warranty may be extended one year at a time up to fifteen (15) years from the delivery date if the original purchaser employs Eagle Eye to perform annual on-site maintenance service on said anesthesia machine(s) prior to the end of the 11th, 12th, 13th, 14th and 15th years of ownership as measured from the date of delivery. Annual maintenance must be performed consecutively in years eleven (11) through fifteen (15) for warranty to be extended. In the event that customer does not employ Eagle Eye to provide annual maintenance of purchased equipment in any of the years eleven (11) through fifteen (15), measured from the date of purchase, this warranty will expire at the end of the last year that Eagle Eye performed annual maintenance on said equipment.

Eagle Eye's obligation under this warranty is, at its discretion, limited to the repair or one-time replacement of defective parts or products which are reported to Eagle Eye by the customer within the valid warranty period and are determined to be defective upon examination by Eagle Eye.

Items of Exclusion:

Parts and components that are not manufactured by Eagle Eye are warranted for one (1) year from the date of delivery to the original purchaser include: flowmeter valves, flowmeter covers, hoses (rubber and silicone), plastic adapters, poles and bases. Any accessory item manufactured by Eagle Eye that is delivered with the original purchase and delivery of a new Eagle Eye Anesthesia machine and attaches to the machine is warranted for one (1) year from the date of delivery to the original purchaser, excluding items not manufactured by Eagle Eye, breathing circuits, scavenge equipment or any item deemed to be disposable.

Eagle Eye 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. Eagle Eye shall not be liable for nor does the warranty cover product that is defective or damaged as a result of (1) misuse, abuse, negligence, misapplication or freight damage; (2) product repaired, altered or modified by persons outside the employment of Eagle Eye; (3) or product not installed or employed in strict compliance with applicable codes and ordinances.

This warranty shall be void for any product on which the serial number has been altered, defaced or removed.

Under no circumstances shall Eagle Eye Anesthesia, Inc. be liable for incidental or consequential damages as those terms are defined in the uniform commercial code.

Notes

