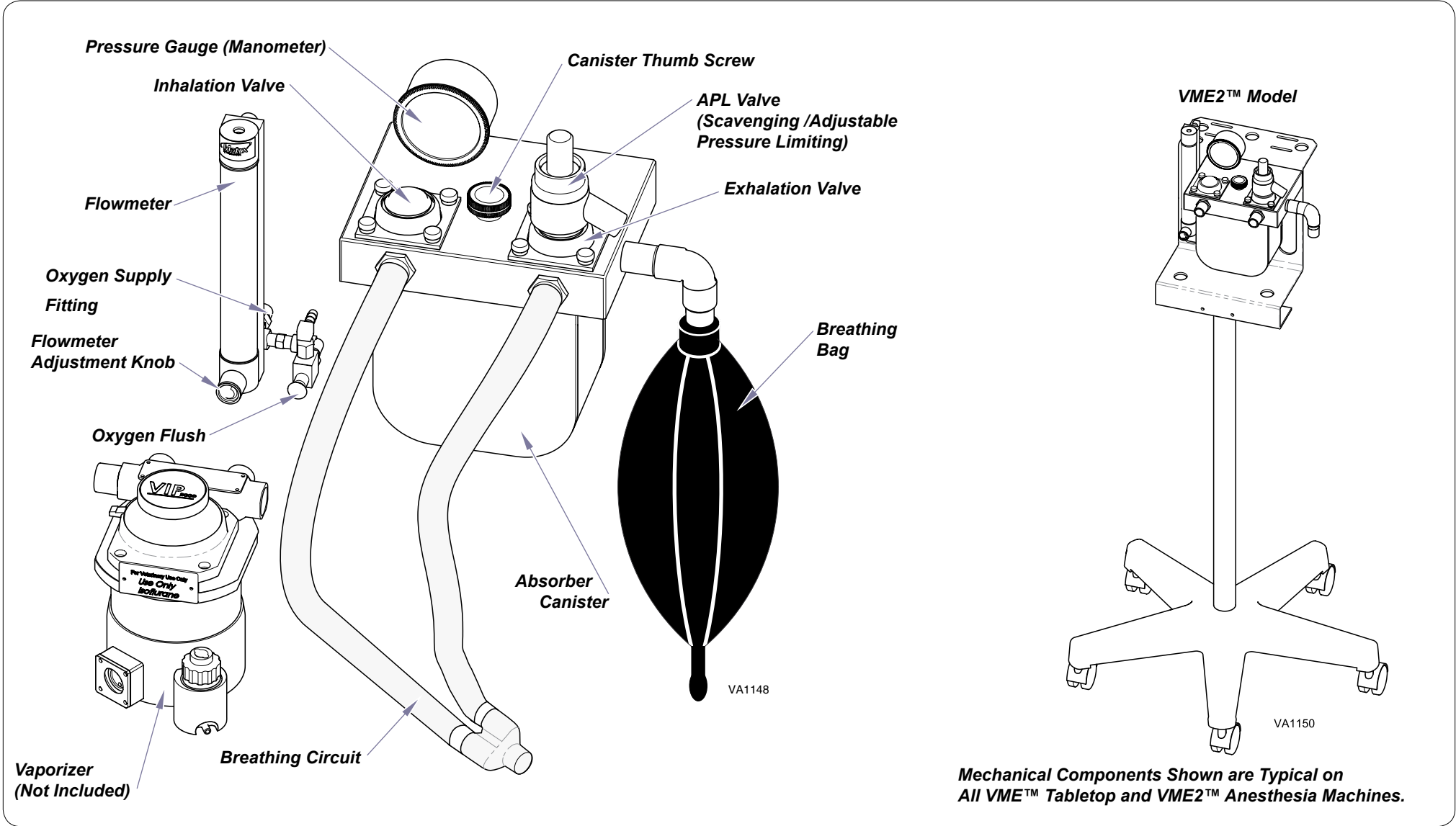




# Anesthesia Machine Installation

**Applies to Models:**  
Matrix VME™ Tabletop  
Matrix VME2™

**Note**  
Wall mounted units require mounting kit 91800103.



# Important Information

## Intended Use

The operation of Matrix™ anesthesia machines is restricted to use by veterinary professionals trained in anesthesia practice.



### Caution

Federal law restricts this device to sale by or on the order of a licensed veterinarian.

## Disposal of Equipment

At the end of product life, the unit(s), accessories, and other consumable goods may become contaminated from normal use. Consult local codes and ordinances for proper disposal of equipment, and other consumable goods.

## Transportation / Storage Conditions

Ambient Temperature Range:.....32°F to 104°F (0°C to 40°C)  
Relative Humidity.....10% to 90% (non condensing)  
Atmospheric Pressure .....500hPa to 1060hPa (0.49atm to 1.05atm)



Proper Shipping Orientation



Maximum stacking height  
(Do not stack)



Fragile



Keep Dry



Consult User Guide



Do Not Tumble



Handle With Care

## Safety Symbols



### DANGER

Indicates an imminently hazardous situation which will result in serious or fatal injury if not avoided. This symbol is used only the most extreme conditions.



### WARNING

Indicates a potentially hazardous situation which could result in serious injury if not avoided.



### Caution

Indicates a potentially hazardous situation which may result in minor or moderate injury if not avoided. It may also be used to alert against unsafe practices



### Equipment Alert

Indicates a potentially hazardous situation which could result in equipment damage if not avoided.

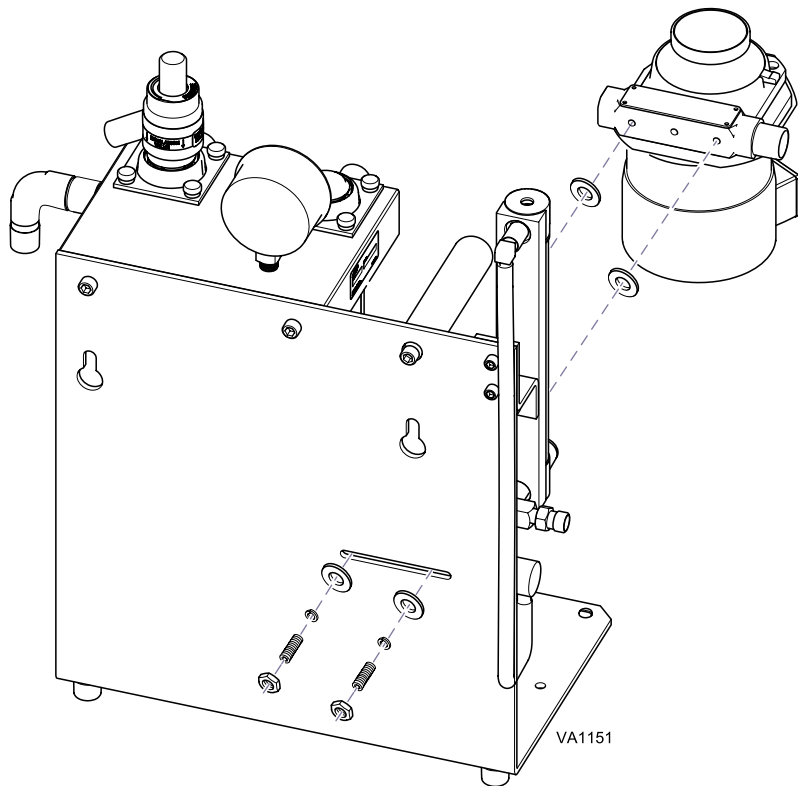
### Note

Amplifies a procedure, practice, or condition.

# VME™ Tabletop/Wall Mounted

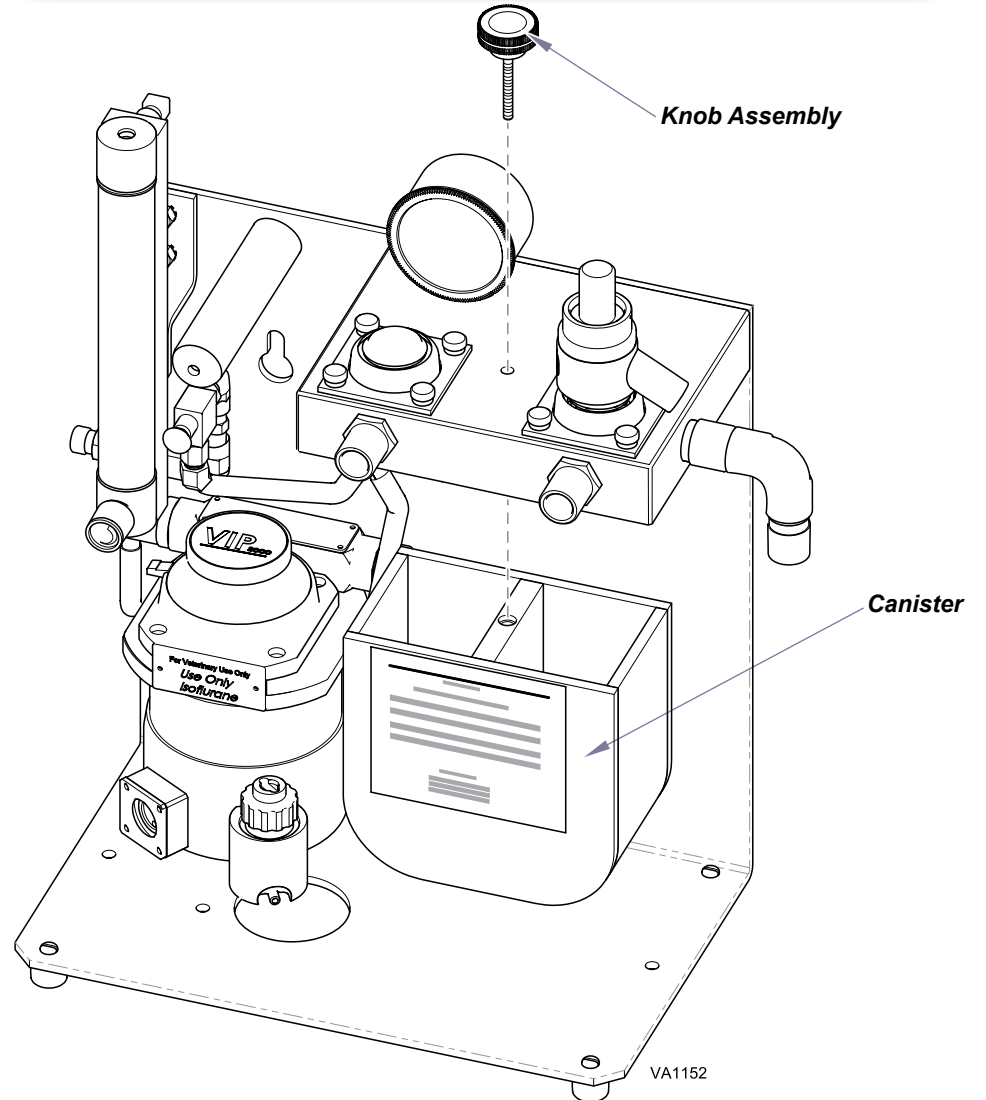
## Step 1: Install vaporizer.

*Note: Vaporizer is not included with anesthesia machine, however the mounting hardware for a vaporizer is included.*



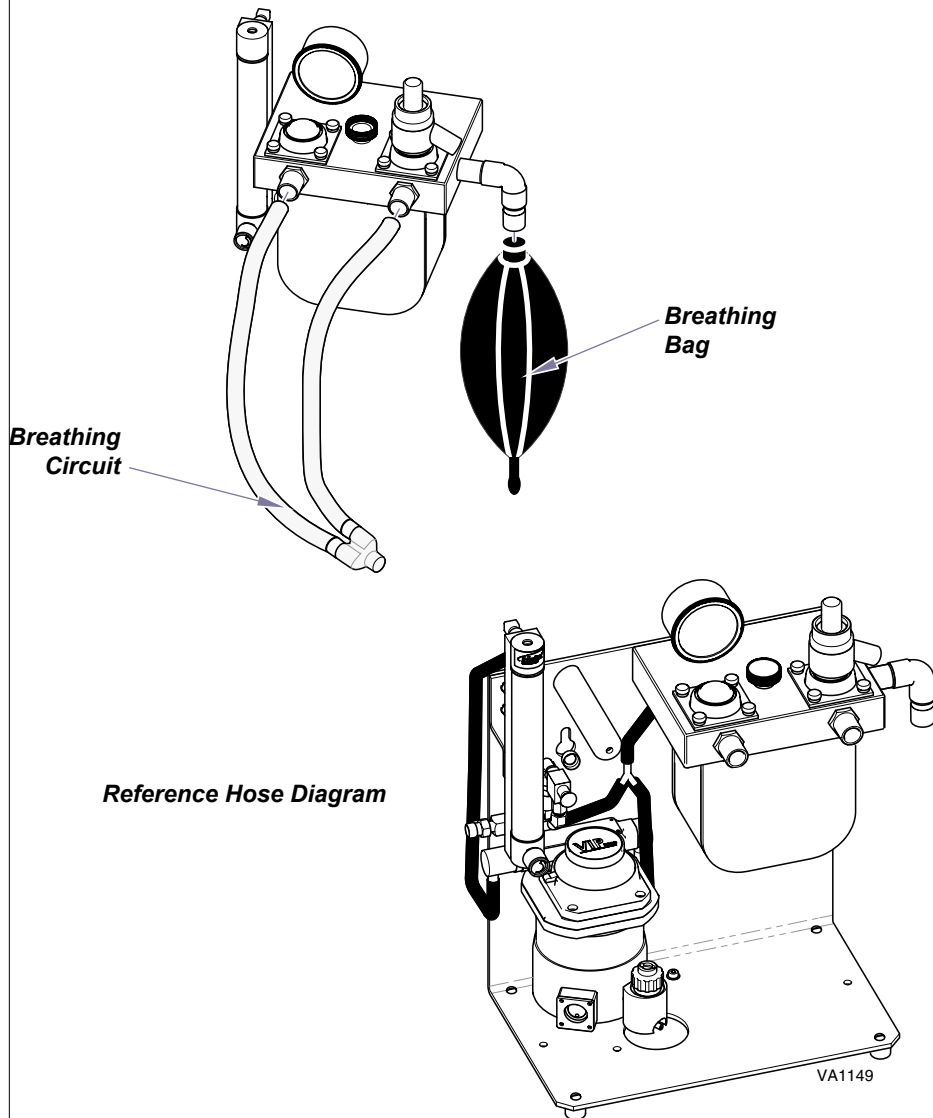
## Step 2: Remove canister. Fill with absorbent according to specifications on canister label. Reinstall canister.

*Note: Do not overtighten canister knob assembly.*



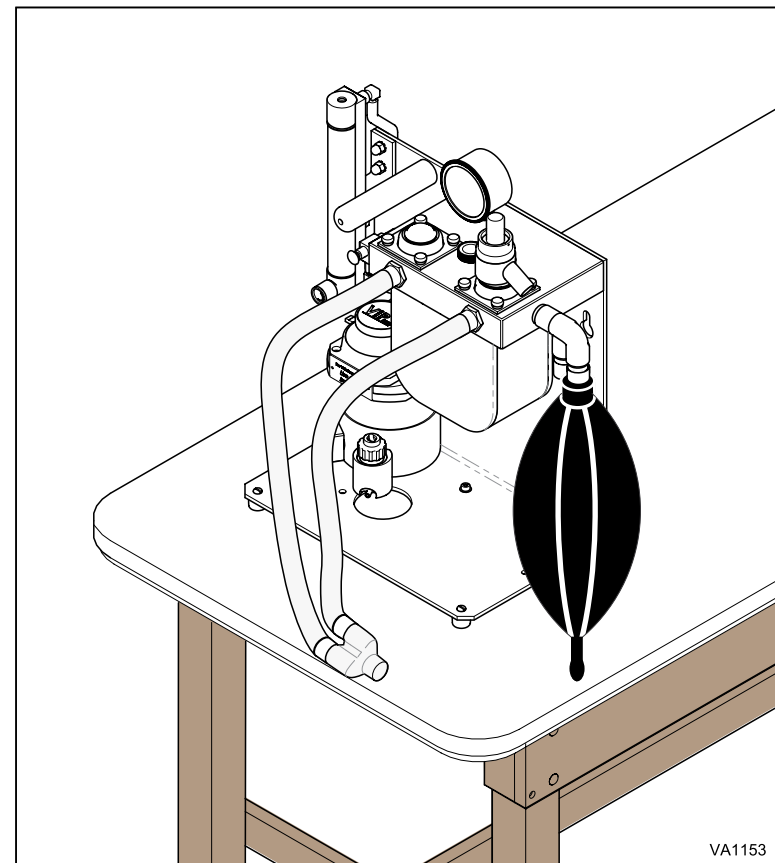
# VME™ Tabletop/Wall Mounted Continued

**Step 3:** Install breathing bag and breathing circuit. Verify hoses are assembled as shown.



**Step 4:** Place anesthesia machine on table or mount on wall. Perform leak test. (*Leak Test Procedure in back of this manual.*)

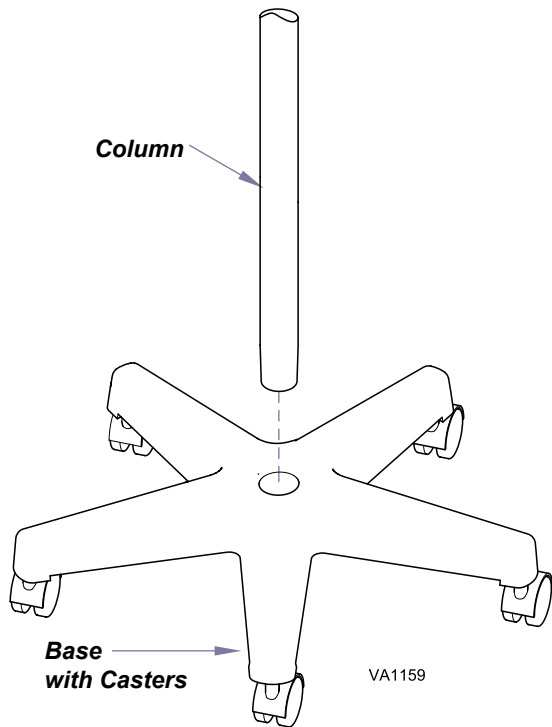
*Note: Wall installation requires mounting kit, 91800103. Instructions for wall mount are included with kit.*



**VME™ Tabletop installation is Complete After Leak Test is Performed.**

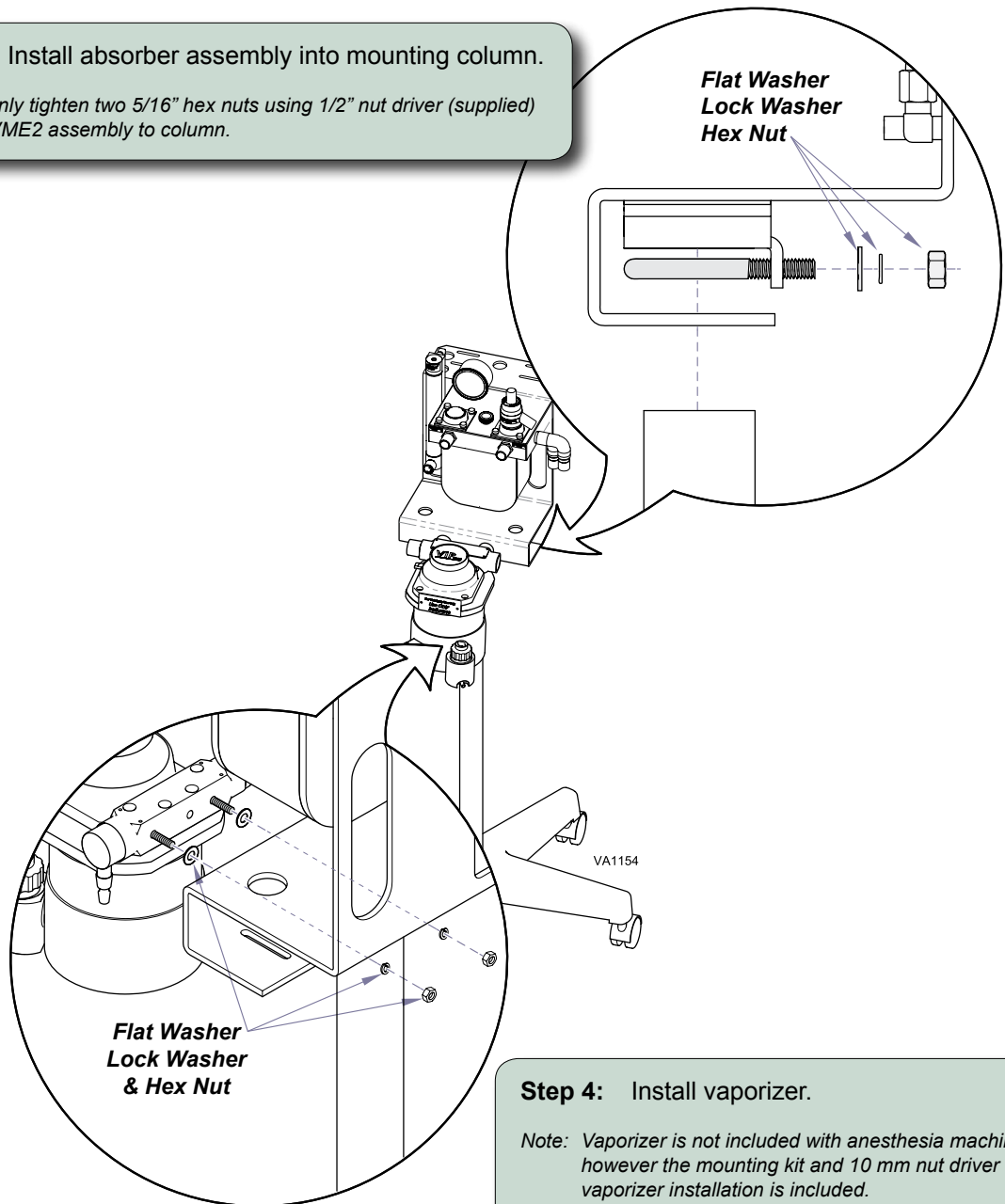
# VME2™ Stand Mounted

**Step 1:** Place base with casters on floor.



**Step 3:** Install absorber assembly into mounting column.

*Note: Evenly tighten two 5/16" hex nuts using 1/2" nut driver (supplied) to secure VME2 assembly to column.*



**Step 2:** Install tapered end of column into base.

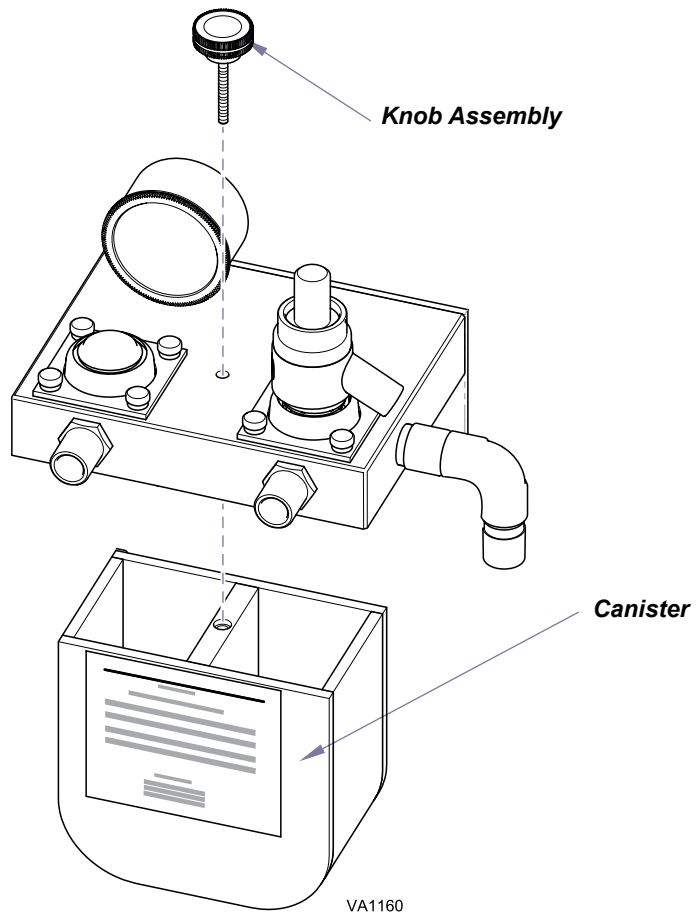
**Step 4:** Install vaporizer.

*Note: Vaporizer is not included with anesthesia machine, however the mounting kit and 10 mm nut driver for vaporizer installation is included.*

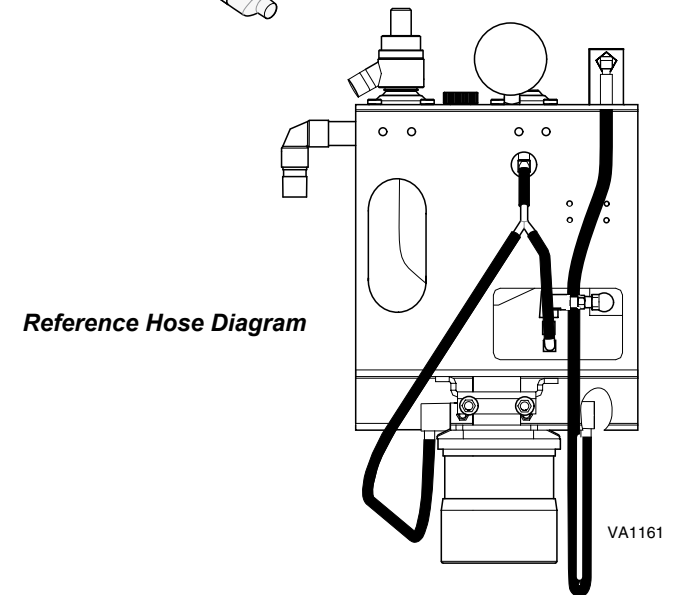
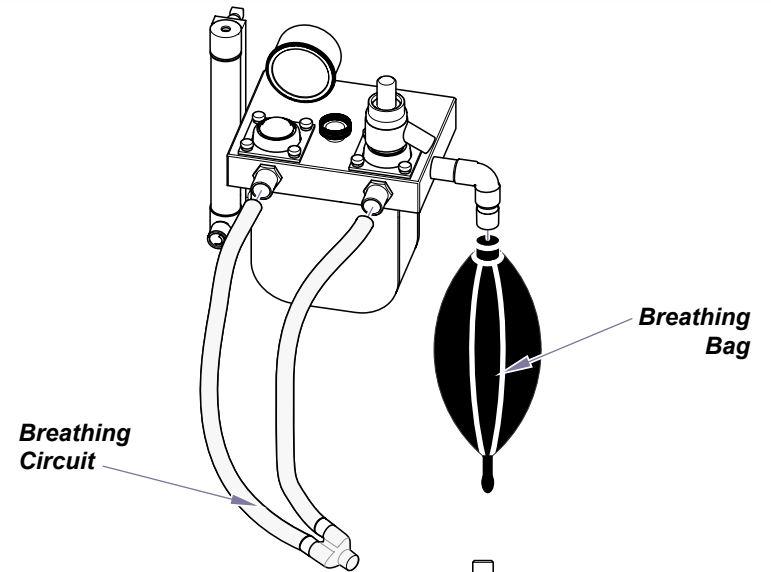
# VME2™ Stand Mounted Continued

**Step 5:** Remove canister.  
Fill with absorbent according to specifications on canister label.  
Reinstall canister.

*Note: Do not overtighten canister knob assembly.*



**Step 6:** Install breathing bag and breathing circuit.  
Verify hoses are assembled as shown.  
Perform leak test. (*Leak Test Procedure in back of this manual.*)



# Leak Test (All Models)

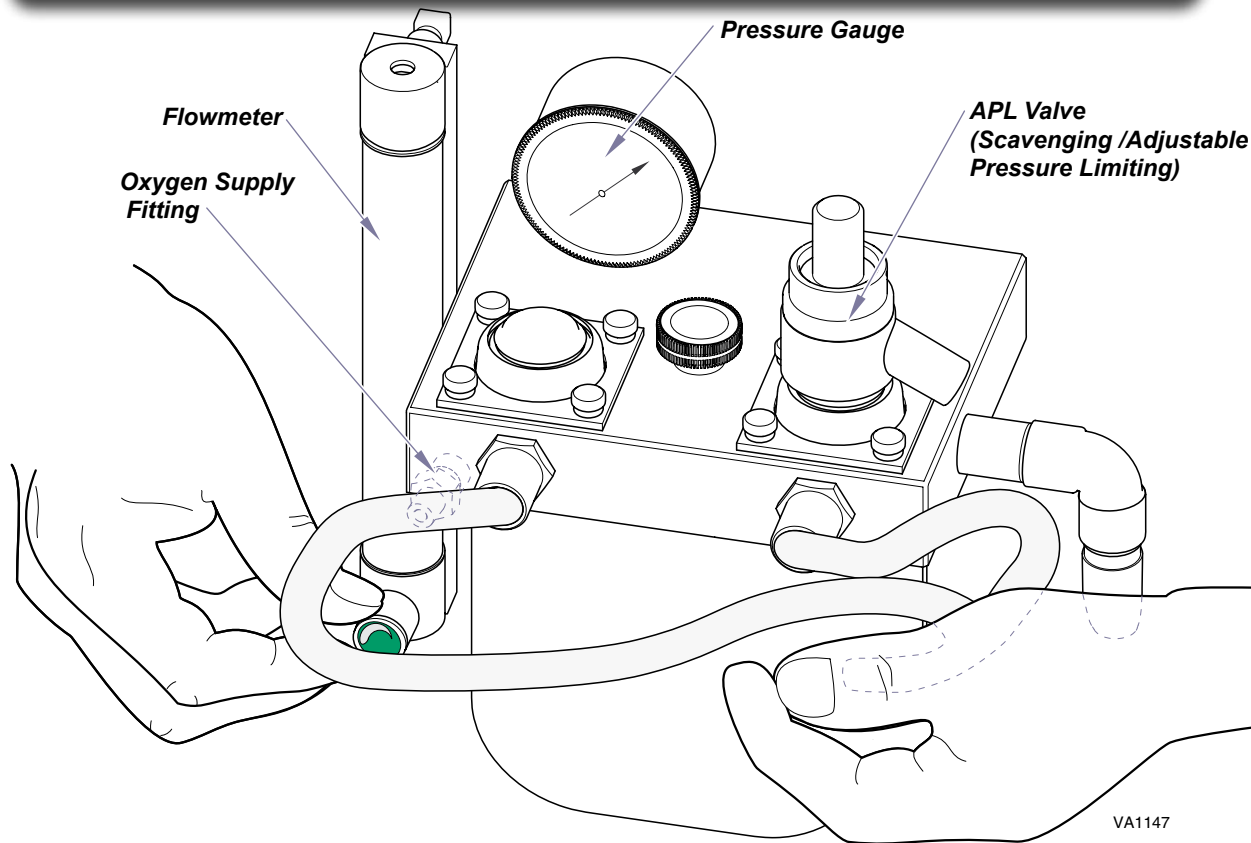
## To perform leak test...

- A) Connect oxygen tank.
- B) Close APL (Scavenging /Adjustable Pressure Limiting) valve by turning knob clockwise.
- C) Place thumb over patient connection of breathing circuit Y.
- D) Remove breathing bag and cover bag port opening. (Use palm of hand that is covering Y.)
- E) With oxygen (50-55 PSI [3.4-3.8 Bar]) supplied to anesthesia machine, slowly open flowmeter to register 30cm H<sub>2</sub>O on anesthesia machine pressure gauge.
- F) Turn off flowmeter when pressure reaches 30cm H<sub>2</sub>O. (If pressure holds steady the system is leak free but if pressure drops, proceed to step (G).)
- G) Slowly open flowmeter until pressure stabilizes at 30cm. H<sub>2</sub>O setting. (This determines the magnitude of the leak. If leak rate is greater than 300ml/min; proceed to step (G).)
- H) Refer to "What if machine leaks?"
- I) Replace reservoir bag. Repeat step (B) and steps (D) through (F). This will determine the integrity of breathing bag.



## Equipment Alert

Do not activate the oxygen flush during any part of this leak test.



## What if Machine Leaks?

- 1) **Breathing Bag** - If leak occurs, replace.
- 2) **Breathing Circuit** - Install new breathing circuit or obstruct inhalation / exhalation openings to determine if leak originates from breathing circuit.
- 3) **Vaporizer Fittings** - Verify fittings and tubing are securely attached.
- 4) **Canister Gasket** - Check for loose absorbent grains between canister housing gasket.
- 5) **Verify Canister** is seated properly.
- 6) **APL Valve** - Remove valve and obstruct opening to determine if leak originates from APL valve. Check the o-ring under valve for damage.
- 7) **O-Rings** under dome and clamp. Check the o-rings for damage.

VA1147

| <b>Dimensions</b>                          | <b>VME Stand</b>   | <b>VME Wall Mounted</b>      | <b>VME Tabletop</b>          |
|--|--------------------|------------------------------|------------------------------|
| <b>Floor to Top of Anesthesia Machine:</b> | 51" (129.54 cm)    | N/A                          | N/A                          |
| <b>Total Width of Unit:</b>                | 15" (38.1 cm)      | 15" (38.1 cm)                | 15" (38.1 cm)                |
| <b>Width of Shelf:</b>                     | 10 1/2" (26.67 cm) | 13 1/2" (34.29 cm)           | 13 1/2" (34.29 cm)           |
| <b>Length of Shelf:</b>                    | 10" (15.24 cm)     | 8 1/2" (21.59 cm)            | 8 1/2" (21.59 cm)            |
| <b>Distance from Wall:</b>                 | N/A                | 8 3/4"                       | N/A                          |
| <b>Floor Footprint:</b>                    | 27" (68.58 cm)     | N/A                          | N/A                          |
| <b>Wall Footprint:</b>                     | N/A                | 19" x 14" (48.26 x 35.56 cm) | 19" x 14" (48.26 x 35.56 cm) |
| <b>Shipping Weight:</b>                    | 44 lbs             | 27 lbs                       | 24 lbs                       |

| <b>Dimensions</b>                          | <b>VMS Stand</b> | <b>VMS Wall Mounted</b> | <b>VMS Plus</b>    | <b>VMC</b>          |
|--|------------------|-------------------------|--------------------|---------------------|
| <b>Floor to Top of Anesthesia Machine:</b> | 54" (137.15 cm)  | N/A                     | 57" (127 cm)       | 53 1/2" (135.89 cm) |
| <b>Total Width of Unit:</b>                | 12" (30.48 cm)   | 12" (30.48 cm)          | 12" (30.48 cm)     | 21" (53.34 cm)      |
| <b>Width of Shelf:</b>                     | N/A              | N/A                     | 22" (55.88 cm)     | 12" (30.48 cm)      |
| <b>Length of Shelf:</b>                    | N/A              | N/A                     | 13 1/4" (33.65 cm) | 12" (30.48 cm)      |
| <b>Swing Radius:</b>                       | N/A              | 6 3/4" (17.14 cm)       | N/A                | N/A                 |
| <b>Distance from Wall:</b>                 | N/A              | 8 3/4"                  | N/A                | N/A                 |
| <b>Floor Footprint:</b>                    | 27" (68.58 cm)   | N/A                     | 27" (68.58 cm)     | 27" (68.58 cm)      |
| <b>Wall Footprint:</b>                     | N/A              | 22" x 12"               | N/A                | N/A                 |
| <b>Shipping Weight:</b>                    | 42 lbs           | 26 lbs                  | 75 lbs             | 75 lbs              |