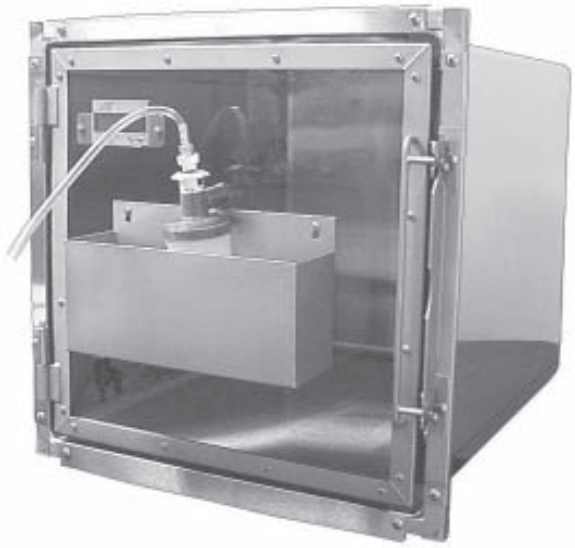
Owner's Manual



Oxygen Therapy Door

- *Converts standard Regal cage into an oxygen therapy chamber*
- *Models to fit most single-door Regal cages*
- *Door-mounted thermometer/hygrometer*
- *Outside compartment for nebulizer and ice*

New Model Numbers:

12155-00-DRDRAA, 12155-00-DREPAA, 12155-00-EPDRAA, 12155-00-EPEPAA, 12155-00-EPFNAA, 12155-00-EPHJAA, 12155-00-FNFNAA, 12155-00-FNHJAA

Former Model Numbers:

102563-1, 102566-1, 102564-1, 102567-1, 102568-1, 102570-1, 102573-1, 102575-1

SSCI

Wheeling, IL (800) 323 7366

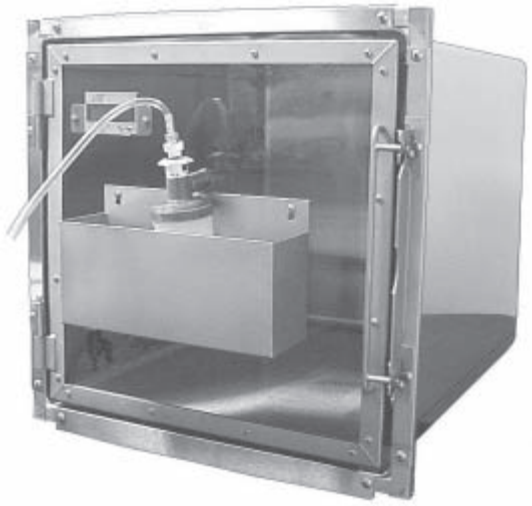
Form No. 702703 Rev. E 08/06

Warning: **Oxygen is a highly combustible gas. Avoid the use of open flames, smoking materials, or equipment capable of producing sparks in any area in which oxygen is being used.**

Inquiries should be addressed to **Suburban Surgical Co., Inc.**
Wheeling, Illinois 60090, USA

Table of Contents

Chapter 1 - General Information



Introduction

The SSCI Oxygen Therapy Door transforms your standard Regal cage into an oxygen therapy chamber. The clear door features a continuous-flow nebulizer with .25 in (.635 cm) inner diameter x .062 in (.16 cm) thick tubing to deliver a regulated flow of medicated, moist oxygen.

A thermometer/hygrometer mounted on the door monitors cage temperature and humidity for optimal treatment. The clear polycarbonate door allows you to view the animal at all times.

A detachable compartment on the outside holds the oxygen nebulizer and ice to cool the oxygen if needed. The door mounts onto the front of the cage in place of the regular door, and uses standard hinges and latches to close securely. Rubber door seals on all four sides of the door are open at the corners to uniformly distribute oxygen and exhaust carbon dioxide.

About this Manual

Every attempt has been made to insure that the information in this manual is correct and complete. SSCI, however, always welcomes our customer's suggestions for improvements to our products and associated publications.

Information and Safety Notices

Throughout this manual you will find text under the headings **Note:** and ***WARNING:***.

Notes

Under the **Note:** headings, you will be given additional information pertinent to the subject discussed in that paragraph or step.

> **Example:**
>
> Push the oxygen supply hose onto the new fitting.
> **Note:** A small amount of grease on the barbs will ease assembly.

WARNINGS

Under the ***WARNING:*** headings, you will be alerted to potentially hazardous conditions which, if ignored or mishandled, could result in injury to yourself, or damage to the equipment.

> **Example:**
>
> ***WARNING:*** **Oxygen is a highly combustible gas. Avoid the use of open flames, smoking materials, or equipment capable of producing sparks in any area in which oxygen is being used.**

Models

The SSCI Oxygen Therapy Door is available in eight different models, based on Regal cage sizes. **Note:** Dimensions shown in Table 1 are cage sizes.

New P/N	Former P/N	Dimensions (in.)	Dimensions (cm)
12155-00-DRDRAA	102563-1	24W x 24H	60.96W x 60.96H
12155-00-DREPAA	102566-1	24W x 30H	76.20W x 60.96H
12155-00-EPDRAA	102564-1	30W x 24H	60.96W x 76.20H
12155-00-EPEPAA	102567-1	30W x 30H	76.20W x 76.20H
12155-00-EPFNAA	102568-1	36W x 30H	91.44W x 76.20H
12155-00-EPHJAA	102570-1	48W x 30H	121.92W x 76.20H
12155-00-FNFNAA	102573-1	36W x 36H	91.44W x 91.44H
12155-00-FNHJAA	102575-1	48W x 36H	121.92W x 91.44H

Table 1. Models - Oxygen Therapy Door

Care and Cleaning of Stainless Steel

Introduction

Stainless steel is steel alloyed with chromium to make it highly resistant to stain, rust and corrosion. **Note:** This does NOT mean that stainless steel will *never* rust or corrode. Science has not yet developed a steel which is completely stainless or corrosion PROOF.

The type of stainless steel and finish selected by SSCI for the Oxygen Therapy Door is the best available for the intended use.

Cleaning and Cleansers

The basic rule of thumb is to use the mildest cleaning procedure that will do the job effectively. Always rinse thoroughly with clear water, and dry completely. Frequent cleaning will prolong the service life of stainless steel equipment and will help maintain a bright, pleasing appearance.

Ordinary deposits of waste and fluids can usually be removed with soap and water. More stubborn deposits or tightly adhering debris may require harder scrubbing and possibly the use of commercial cleaning products acceptable for use on metal surfaces. When using any cleaning agent, rub in the direction of the polish lines or "grain" of the metal. For high luster finishes, clean soft cloths or pads should be used.

If especially rough cleaning is necessary, use "stainless steel" wool, nylon or plastic scrubbers. Test these scrubbers in an inconspicuous area first to be sure they do not mar or scratch the stainless steel finish.

Minor scale build-up and some hard water spotting may be removed by washing with vinegar, followed by a neutralizing rinse with clear water and a thorough drying with a soft cloth. For heavy deposits of scale, 5% oxalic acid (use warm), 5-15% sulfamic acid, or 5-10% phosphoric acid may be used. Always follow with a neutralizing rinse of clean water and a thorough drying.

Deodorizing Agents, Disinfectants and Sanitizers

The large selection of brands and combinations of chemicals available for deodorizing, disinfecting and sanitizing is staggering. Select one or more agents for use in your facility only after weighing all the benefits claimed by each product. Often this choice is made without adequate consideration of the effects these agents may produce on equipment or furnishings.

CAUTION: **Before selecting a chemical to employ in your facility, review label statements regarding use with metals (stainless steel). Always consult the chemical supplier if there are any doubts.**

Avoid prolonged use of chlorides (such as chlorine bleach), bromides, iodides and thiocyanates on stainless steel surfaces as these chemicals will cause pitting, corrosion and metal discoloration. Allowing salty solutions to evaporate and dry on stainless steel may also contribute to corrosive conditions.

In summary, select chemical deodorizers, disinfectants and/or sanitizers only after weighing all possible benefits and known adverse effects.

Effect on Warranty

The warranty for this product is void if the care and cleaning instructions provided in this manual are not followed.

Safety

WARNING: **Oxygen is a highly combustible gas. Avoid the use of open flames, smoking materials, or equipment capable of producing sparks in any area in which oxygen is being used.**

Cleaning Requirements

Clean the Oxygen Therapy Door exactly in accordance with the cleaning instructions provided in *Chapter 3* of this manual. *Failure to follow these instructions can void your warranty.*

SSCI Contact Information

Contact SSCI Customer Service by mail, telephone or fax. The department is available from 8:30am to 5:00pm, Central Time, Monday through Friday. Closed holidays.

Address: Suburban Surgical Co., Inc.
275 Twelfth Street
Wheeling, Illinois 60090

Telephone: Illinois - (847) 537-9320, ext. 3518
Toll Free - (800) 323-7366

Fax: (847) 537-9061

Web: www.suburbansurgical.com

Warranty

Suburban Surgical Company, Inc. warrants the original purchaser that our products are of the highest standards in material and workmanship. Our stainless steel components are guaranteed to last a lifetime assuming they are used as intended, properly maintained and cared for. Mechanical, electrical, electronic, hydraulic, and any product's devices carry a one year warranty.

Items purchased by Suburban Surgical Company, Inc. from other manufacturers and incorporated into our equipment are covered by the respective manufacturer's warranties.

Warranties will not apply if it is determined by Suburban Surgical Company, Inc. that the equipment became defective due to an accident, misuse, abuse, improper maintenance or alteration. Warranty freight charges are covered for the first year only.

Comments:

Chapter 2 - Installation and Setup

Unpacking and Inspection

If the shipping container appears damaged in any way, contact the shipping company immediately. Save all damaged packing materials to assist in proving liability for damage.

Carefully inspect your Oxygen Therapy Door while you unpack it. If damage is noted, or if parts appear to be missing, call SSCI Customer Service at (800) 323-7366.

Parts Included

The following parts are included in the shipment (Figure 1):

- Oxygen Therapy Door
- Ice tray with valve
- Nebulizer with supply tubing

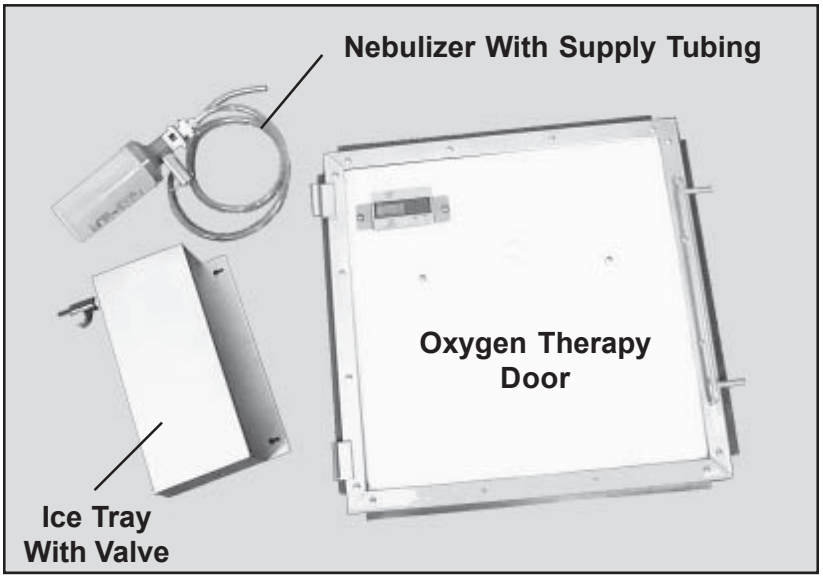


Figure 1. Parts Included in Shipment

Installation and Setup

Tools Required

- Phillips screwdriver
- Punch (1/4 in. dia. max.)
- Small hammer or mallet

Procedure

1. With a 1/4 in. or smaller punch and a small hammer, remove both hinge pins from the cage door (Figures 2 and 3).

2. Remove the door from the cage.

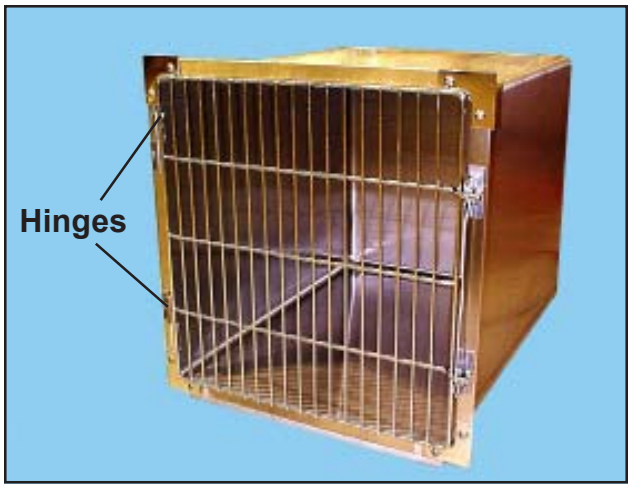


Figure 2. Hinges on a Regal Cage

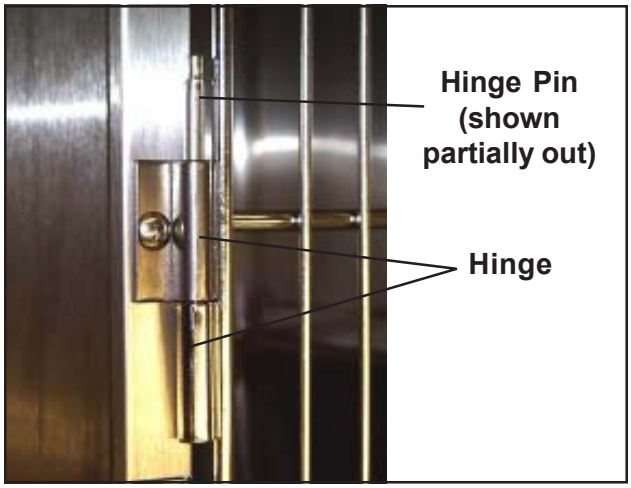


Figure 3. Door Hinge and Hinge Pin

3. Open the door and, on the rear of the gauge, pull the tape marked "REMOVE TO START" from the battery compartment. The gauge will begin operating.

4. Hang the oxygen therapy door on the existing cage hinges and install the original hinge pins (Figure 4).

5. Hang the ice tray on the button hooks provided on the door (Figures 4 and 5).

Figure 4. Oxygen Therapy Door in Place on a Regal Cage

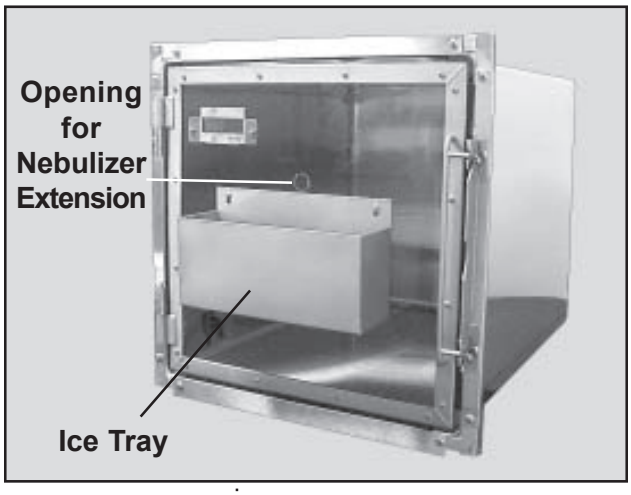


Figure 5. Ice Tray in Place

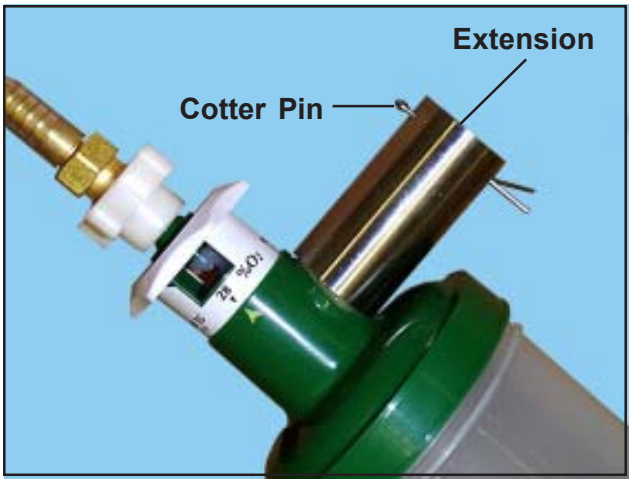


Figure 6. Nebulizer

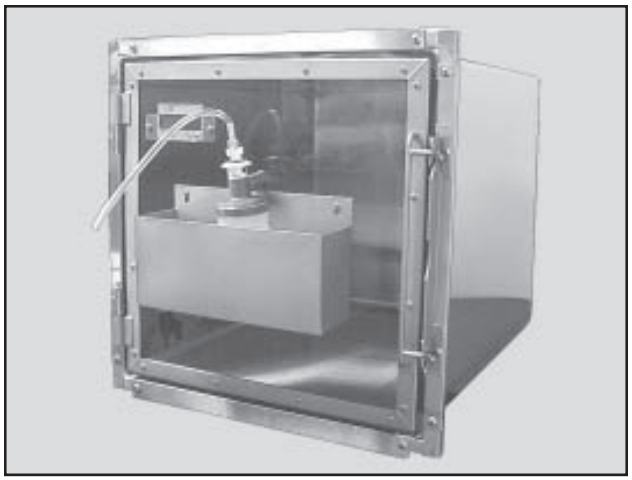


Figure 7. Nebulizer in Place

6. On the nebulizer extension, squeeze the two ends of the cotter pin together and remove the pin from the extension (Figure 6).

7. Open the oxygen therapy door.

8. Place the nebulizer in the ice tray with the extension through the opening in the door (Figures 5, 6, and 7).

9. Inside the door, replace the cotter pin through the extension to hold the nebulizer in place and spread the two cotter pin ends apart to keep the pin from falling out.

10. Attach the free end of the nebulizer plastic tubing to a 50 psi wall oxygen outlet or an oxygen cylinder.
Note: Your oxygen supplier is the best source to make this connection for you.

Installation and setup is complete. Your SSCI Oxygen Therapy Door is now ready for use.

Disposition of the Shipping Carton

The shipping carton can be cut up and thrown away. If adequate space is available, however, it might be handy to retain the carton in case reshipment of the door to the manufacturer ever becomes necessary for repairs.

Comments:

Chapter 3 - Operating and Cleaning

Warning: Oxygen is a highly combustible gas. Avoid the use of open flames, smoking materials, or equipment capable of producing sparks in any area in which oxygen is being used.

Door and Latch

Door Seals

The door has flexible rubber seal strips (Figure 8) on all four sides to prevent the escape of oxygen. The corners are open to help distribute the oxygen uniformly, and allow for the escape of carbon dioxide.

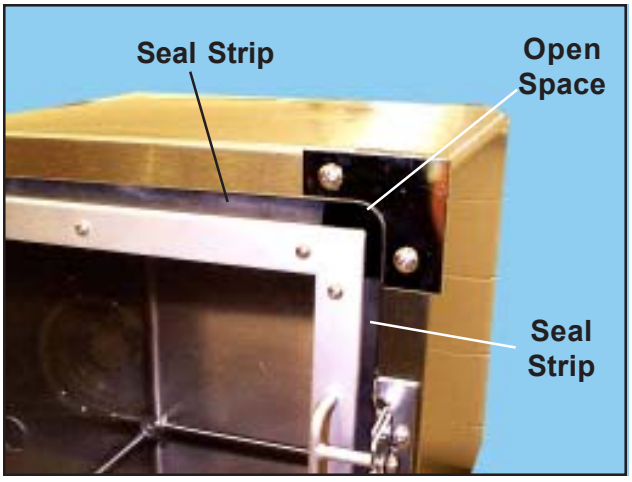


Figure 8. Door Seals and Open Space

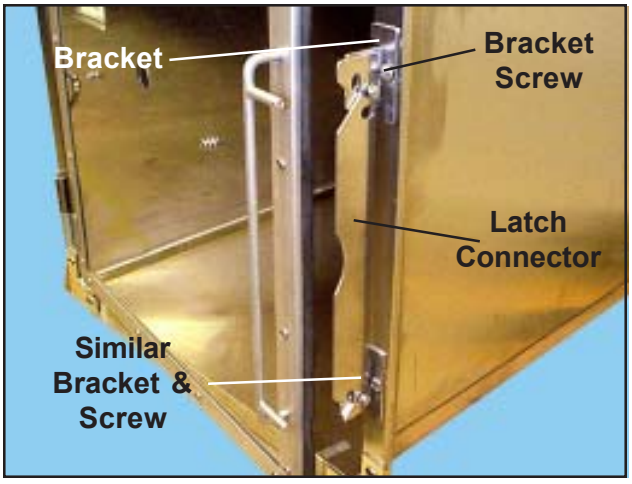


Figure 9. Door Latch and Adjustments

Opening and Closing

The door is held closed by a self-actuating latch connector (Figure 9). As the door is closed, the latch connector rides up and over the handle and then falls down, locking the door closed.

To open the door, lift up on the latch connector and pull the door open.

Latch Adjustment

If the latch connector and door are not properly adjusted, you may have difficulty in opening the door, and it may not lock automatically when closed. To adjust the door, loosen the bracket screws (Figure 9), move the brackets slightly up or down as needed, then retighten the screws. Try the door again, and repeat the adjustment until the latch connector and latch work together smoothly.

If the above adjustment is not adequate, you may have to loosen the screws on the door hinge brackets and move the entire door up or down slightly.

Ice Tray

The ice tray can be used for ice baths, warm water, warm chemical packs - whatever your current treatment requires. The tray cannot be easily removed from the door if the nebulizer is in place. Therefore, a valve is provided on the bottom of the tray to facilitate the disposal of used water (Figure 10). The valve handle positions are:

- Horizontal - Closed - No flow
- Vertical - Open - Flow

You can attach a piece of .375 in. ID tubing to the barbed tubing connection on the valve to drain the tray to a remote location.

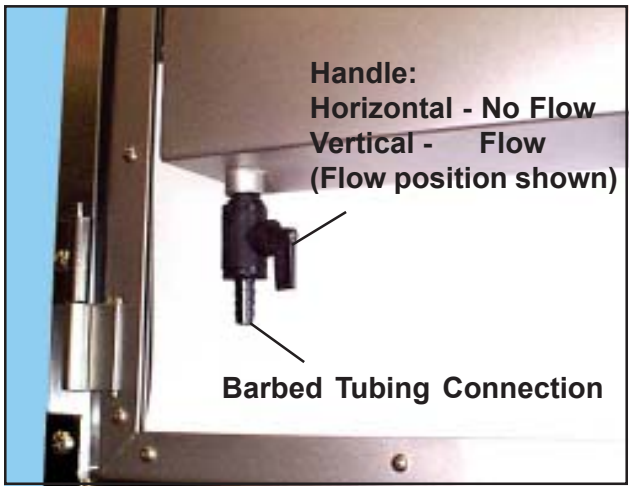


Figure 10. Ice Tray Valve

Figure 11. Temperature/Himidity Gauge

Gauges

General

A two-function, digital gauge is located on the upper left of the oxygen therapy door (Figure 11). This battery-powered gauge includes a thermometer and a hygrometer to allow you to monitor cage temperature and humidity for optimal treatment conditions.

In addition to displaying current conditions, the gauge features Max/Min readouts with memory, and the ability to display temperature in degrees Centigrade or Fahrenheit.

- Temperature Range: 32 -122°F (0 - 50° C)
- Temperature Resolution: 1°F
- Humidity Range: 20 - 99%
- Humidity Resolution: 1%

Cautions

Do not attempt to take the gauge apart. Use only the recommended battery type. No not expose the gauge to liquid water. Dispose of old batteries only in accordance with local regulations.

Maximum/Minimum Temperature and Humidity Recording

As the gauge operates, it records the maximum and minimum temperatures and humidities reached since the last time the Clear Button was pressed. Use a small, pointed instrument, or an unbent paper clip, to press the Max /Min Button (Figure 12) on the gauge. Press once to read the maximum, and once again to read the minimum. Press the button a third time to return to the current reading. The gauge shows MAX or MIN when either of these values is displayed.

Press the Clear Button (Figure 12) to delete the previous maximum and minimum readings and begin recording anew.

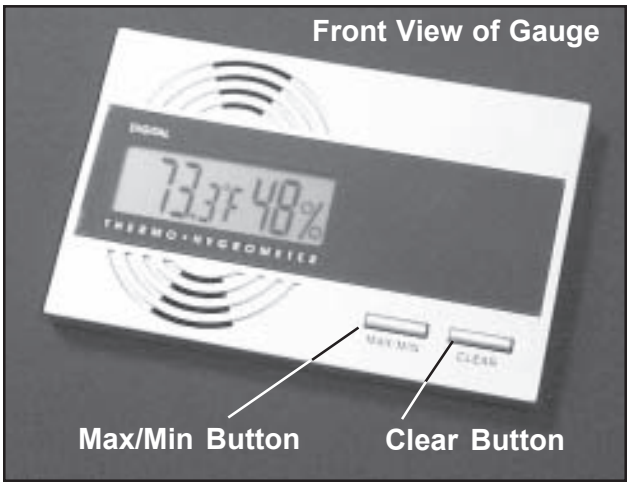


Figure 12. Gauge Buttons

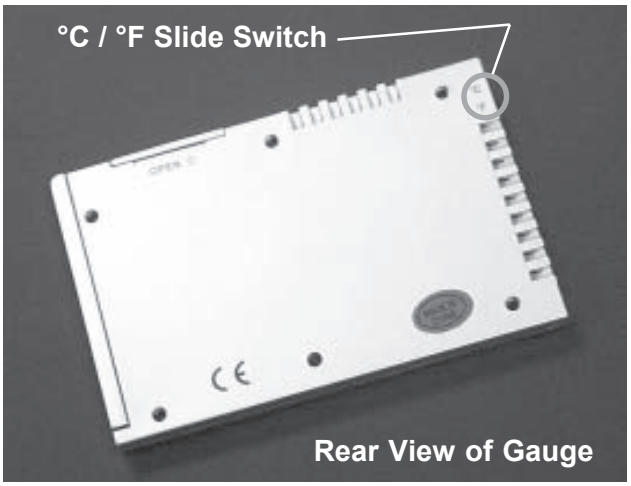


Figure 13. Changing Between °C and °F

Changing Between °C and °F Displays

A slide switch on the side of the gauge (Figure 13) allows you to select between °Centigrade and °Fahrenheit temperature readings. Slide the switch UP to select °Centigrade; and DOWN to select ° Fahrenheit.

Replacing the Gauge Battery

The gauge is powered by a 3.0 volt, lithium, Type CR2032 battery which you can obtain locally.

The battery is contained in a built-in slide in the top of the gauge (Figure 14). Just pull the battery slide up with your finger to open, and remove the battery. When replacing the battery, notice that the battery is marked with a "**+**" sign on one side, and the battery slide is marked with two "**+**" signs (Figure 15). All "**+**" signs must be on the same side and must face the front of the gauge. With the battery in the slide, press the slide downward until it clicks into place.

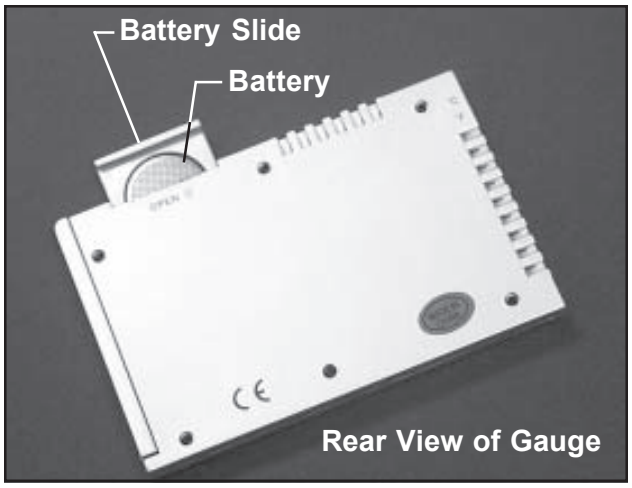


Figure 14. Gauge Battery Slide and Battery

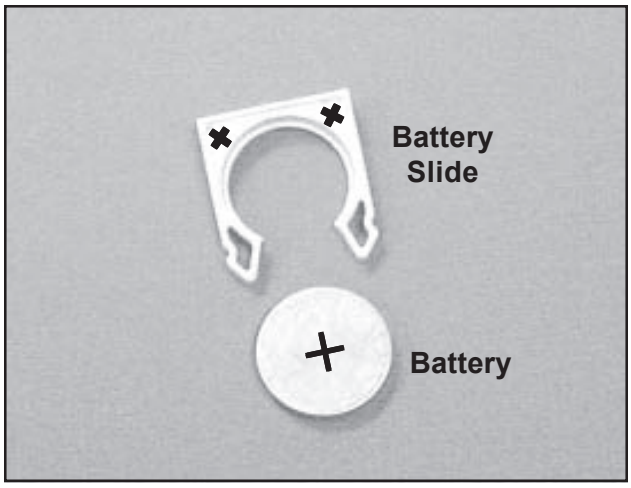


Figure 15. Battery Slide and Battery Removed from Gauge

Using the Nebulizer

We at SSCI are not licensed veterinarians. Please use your experience, and refer to professional literature for advice on proper dosages and usage of medications, and appropriate concentrations of oxygen. **Note:** The nebulizer is designed for single patient use only. Follow the steps below to use the nebulizer:

1. Unscrew the bottle from the cap.

2. Fill the bottle to the "**Maximum**" line with sterile water (Figure 16).

3. Screw the bottle back into the cap.

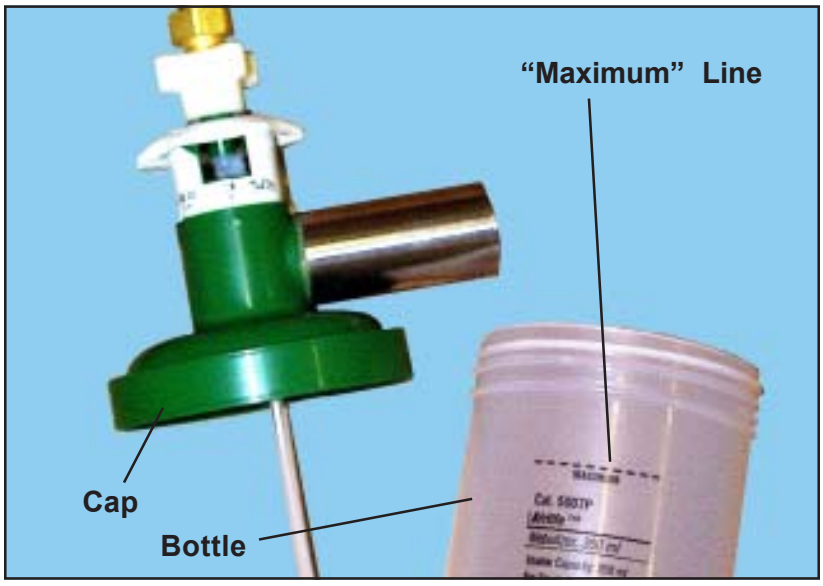


Figure 16. Nebulizer Cap and Bottle

4. Set the oxygen flow to 10 liters per minute or higher if more flow is needed.

5. Refer to *Oxygen Concentration Control* on below to set the desired oxygen concentration.

Oxygen Concentration Control

A simple regulator collar on the nebulizer allows you to control the oxygen percentage concentration in the cage from 28% to 98%. Simply rotate the regulator collar on the nebulizer to the approximate desired percentage (Figure 17). An arrow head molded on the side of the nebulizer neck indicates the selected percentage concentration.

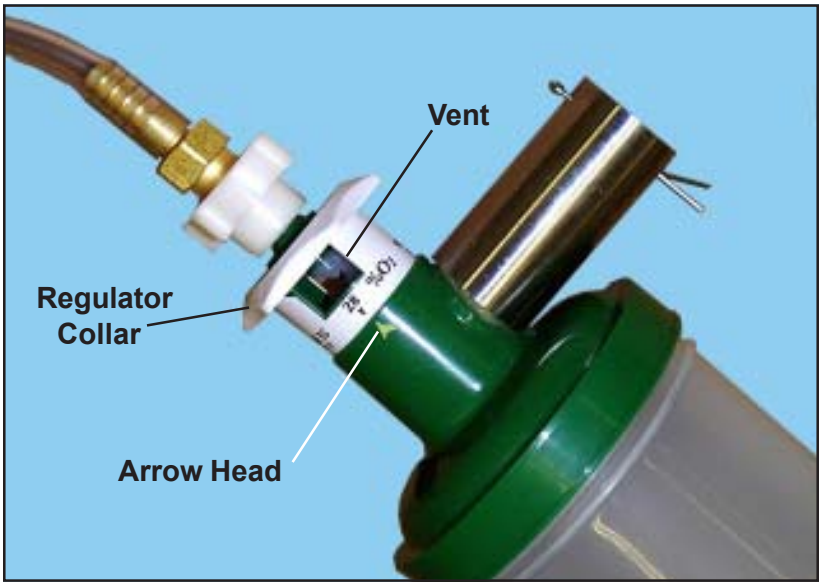


Figure 17. Oxygen Concentration Control

As you rotate the regulator collar, the size of the vent opening increases or decreases. The vent opening is larger at low oxygen concentrations to allow a greater amount of ambient air to enter.

Cleaning Instructions

Introduction

You will no doubt want to clean your oxygen door and cages whenever they become dirty or saturated with waste fluids. Maintaining high standards of sanitation will be an important priority for your facility.

Stainless Steel Cleaning Procedures

Ordinary deposits of waste and fluids can usually be removed with soap and water. Stubborn deposits may require scrubbing with "stainless steel" wool, nylon or plastic scrubbers and/or the use of commercial cleaning products. Always scrub in the direction of the "grain" of the metal. Rinse with clear water and dry thoroughly with a clean, soft cloth.

Minor scale build-up and some hard water spotting may be removed by washing with vinegar, followed by a neutralizing rinse of clear water and a thorough drying with clean, soft cloths.

For heavy deposits of scale, 5% oxalic acid (use warm), 5-15% sulfamic acid, or 5-10% phosphoric acid may be used. As always, rinse with clear water and dry thoroughly with clean soft cloths.

Avoid prolonged use of chlorides (such as chlorine bleach), bromides, iodides and thiocyanates. Never allow salty solutions to dry on the stainless steel. **Note:** NEVER power-wash the oxygen therapy door.

Clear Polycarbonate Cleaning Procedures

Rinse the polycarbonate window with clear water and dry thoroughly with a clean, soft cloth.

Ice Tray Cleaning Procedures

The ice tray should be removed and washed periodically - at least weekly. With heavy use, more frequent washing may be necessary. Wash the tray in hot, soapy water, rinse with hot clear water, then dry thoroughly with a clean, soft cloth. Open the valve and make sure it is completely cleaned and flushed. Open and close the valve several times to make sure it operates freely.

Nebulizer Cleaning Procedures

The nebulizer and bottle should be removed and washed periodically - at least weekly. With heavy use, more frequent washing may be necessary. Wash both items in hot, soapy water, rinse with hot clear water, then dry thoroughly with a clean, soft cloth. Rotate the regulator collar back and forth to make sure it operates freely.

Chapter 4 - Repairs and Replacements

Warning: **Oxygen is a highly combustible gas. Avoid the use of open flames, smoking materials, or equipment capable of producing sparks in any area in which oxygen is being used.**
Before servicing or performing maintenance on the oxygen therapy door, make sure the oxygen supply is turned off at the source.

Replacement Parts

Table 2 lists the replacement parts available for the Oxygen Therapy Door. For parts not listed below, contact SSCI Customer Service at (800) 323-7366. Refer to *Parts Ordering Procedure* on *Page 18*.

Part Name	SSCI Part Number	For Information, Refer to:
Nebulizer Assembly, Complete	212126	*Page 19*
Nebulizer Assembly, Partial	749510	*Page 20*
Nebulizer Oxygen Supply Hose	750492	*Page 20*
Nebulizer Hose Barb Fitting	854546	*Page 21*
Nebulizer Extension	754061	*Page 22*
Nebulizer Cotter Pin	853071	*Page 22*
Gauge Assembly*	854771*	*Page 22*
Ice Tray	202975	*Page 24*
Ice Tray Valve	854545	*Page 24*
Seal Strip Retainer (Refer to *Table 3, Page 27*)	605365 (24 in.) 605367 (30 in.) 605009 (36 in.) 605363 (48 in.)	*Page 25*
Seal Strip (Refer to *Table 4, Page 28*)	750910 (24 in.) 750832 (30 in.) 750831 (36 in.) 750909 (48 in.)	*Page 25*

* If replacing an old-style Gauge Assembly, also order Gauge Bracket, P/N 600162-2 (refer to *Page 23*).

Table 2. Replacement Parts Available for the Oxygen Therapy Door

General Information

- Many of the threaded fasteners used on SSCI products are secured with thread adhesive to insure structural integrity. Removing any screw or bolt may be difficult at first.
- During disassembly, retain all hardware items such as screws, nuts, lockwashers, etc. for reassembly.
- If you have problems with any procedure, please feel to call SSCI Customer Support at (800) 323-7366.

Parts Ordering Procedure

Order new equipment, accessories and/or replacement parts from your local dealer, or directly through SSCI Customer Service. You can order by mail, telephone or fax. Refer to *Contact Information* on *Page 5* for address, telephone and fax numbers. When ordering, please provide the following information:

- Your name
- Company name
- Company account number
- Telephone number
- Fax number
- e-mail address
- Shipping address
- Billing address (if different from shipping address)
- Names, part numbers, and quantities of items being ordered
- Credit card number and expiration date, or other payment information
- Preferred method of shipment
- Information on whether the items are required on a normal or urgent basis

Procedures

Nebulizer Assembly, Complete
P/N 212126

This is the complete nebulizer assembly including the bottle, cap, regulator, extension, cotter pin, hose barb fitting and oxygen supply hose (Figure 18).

Tool Required
- Needle-nose pliers

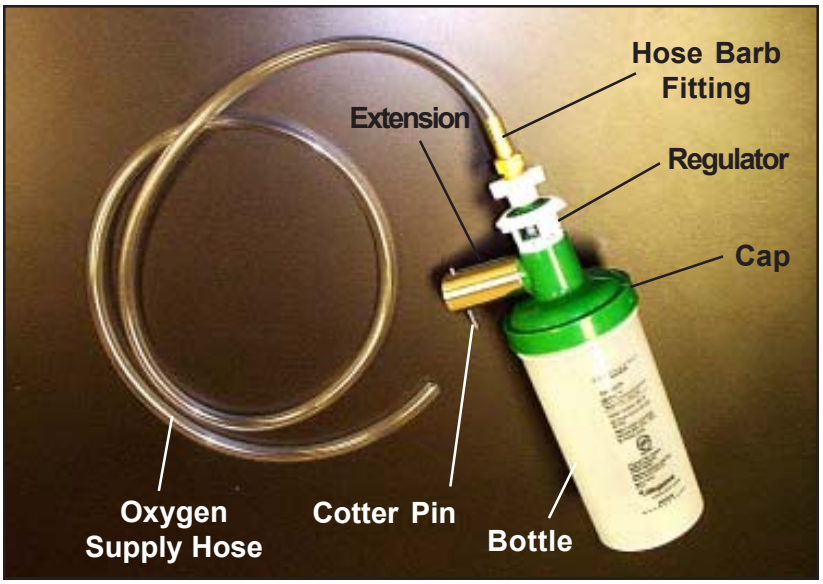


Figure 18. Nebulizer Assembly, Complete

Procedure
1. On the nebulizer extension, use a needle-nose pliers to squeeze the two ends of the cotter pin together, then remove the pin from the extension (Figure 19).

2. Open the oxygen therapy door.

3. Place the nebulizer in the ice tray with the extension through the opening in the door (Figures 19 and 20).

4. Inside the door, replace the cotter pin into the extension to hold the nebulizer in place and spread the two cotter pin ends apart to keep the pin from falling out.

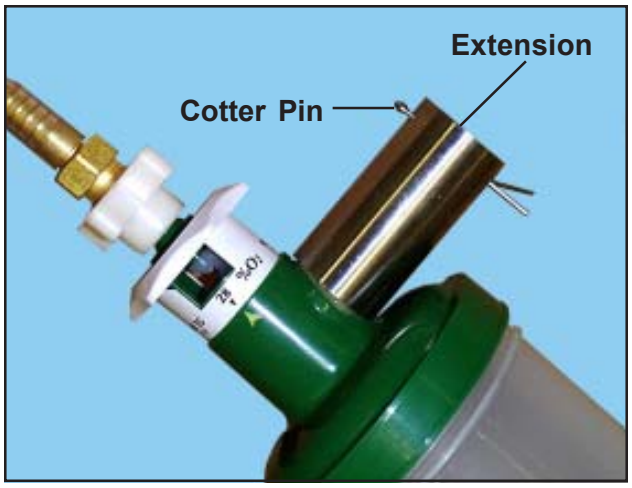


Figure 19. Nebulizer Extension and Cotter Pin

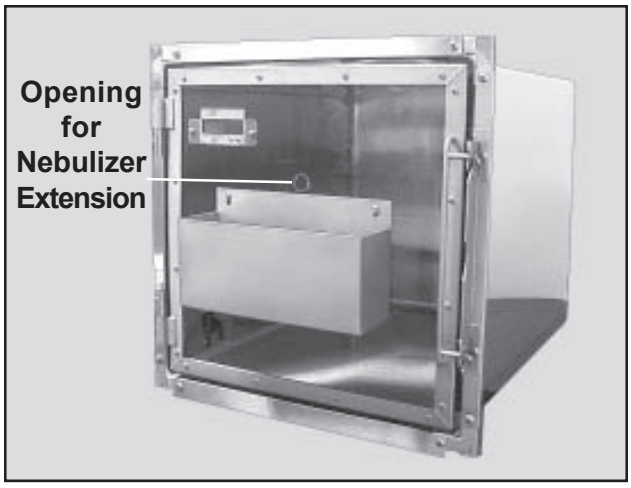


Figure 20. Nebulizer in Place

5. Attach the free end of the nebulizer plastic tubing to a 50 psi wall oxygen outlet or an oxygen cylinder. **Note:** Your oxygen supplier is the best source to make these connections for you.

Nebulizer Assembly, Partial

P/N 749510

The partial nebulizer assembly includes the bottle, cap, and regulator (Figure 18). This partial assembly does NOT include the extension, cotter pin, oxygen supply hose, or hose barb fitting. To fit the non-included parts to this assembly, refer to Table 2 on *Page 17* for appropriate page references. **Note:** When ordering a new partial nebulizer assembly, also order a new extension, P/N 754061. The cotter pin, supply hose, and barb fitting can be transferred from your old nebulizer, however, the extension is bonded in place and difficult to remove.

Nebulizer Oxygen Supply Hose

P/N 750492

This 1/4 in. ID, 3/8 in. OD, 48 in. long tubing (Figure 18) connects the nebulizer to your oxygen source. The source can be a built-in system or an oxygen tank.

1. Push one end of the oxygen supply hose onto the barb fitting on top the bottle (Figure 21). **Note:** A small amount of grease on the barbs will ease assembly.

2. Attach the free end of the hose to a 50 psi wall oxygen outlet or an oxygen cylinder. **Note:** Your oxygen supplier is the best source to make these connections for you.

Nebulizer Hose Barb Fitting

P/N 854546

Tools Required

- 5/8 in. open-end wrench
- Utility knife

Procedure

The hose barb fitting connects the oxygen supply hose to the nebulizer (Figure 21). To replace the fitting:

1. Pull or cut the oxygen supply hose off the fitting.

2. Hold the white, 4-arm knob on top of the regulator, and unscrew the barb fitting with a 5/8 in. open-end wrench.

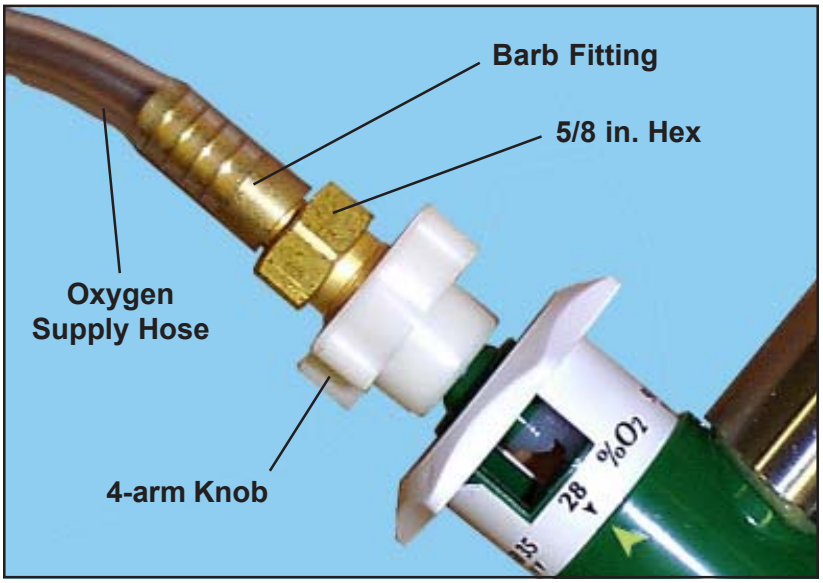


Figure 21. Nebulizer Barb Fitting

3. To install the new fitting, hold the knob and tighten the new fitting with the wrench.

4. Push the oxygen supply hose onto the new fitting.
Note: A small amount of grease on the barbs will ease assembly.

Nebulizer Extension
P/N 754061

The nebulizer extension is a 2 in. long stainless steel tube that provides a channel for the oxygen from the nebulizer to the interior of the therapy chamber (Figure 18). To mount a new extension to a new nebulizer cap, use a high quality silicone cement. Make sure the finished joint is secure and free of air leaks.

Nebulizer Cotter Pin
P/N 853071

The cotter pin holds the nebulizer to the oxygen therapy door (Figure 18). If you should lose or damage this pin, we recommend that you obtain a replacement locally to save time and expense. The pin is stainless steel, 1/16 in. diameter, and 1.5 in. long. In an emergency, use a bent paper clip as a temporary replacement!

Gauge Assembly
P/N 854117

Overview
The original gauge was a square, analog-type instrument. This gauge is no longer available, and has been replaced by a smaller, more modern, digital instrument (Figure 24).

Tools Required
- 3/8 in. wrench
- Phillips screwdriver
- Small flat-blade screwdriver (for old-style gauge only)
- Electric drill with 1/16 in. bit

Removal - Old-style Gauge
1. Open the cage door.

2. With a Phillips screwdriver and a 3/8 in. wrench, remove the two gauge bracket screws/nuts (Figure 22).

3. With a small flat-blade screwdriver, unscrew the two gauge screws (Figure 23).

Figure 22. Removing the Old-style Gauge Assembly

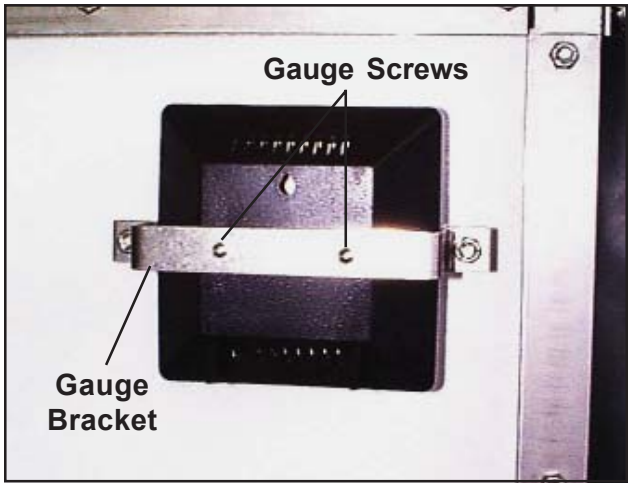


Figure 23. Rear the Old-style Gauge Assembly

Removal - New-style Gauge

1. Open the cage door.

2. With a Phillips screwdriver and a 3/8 in. wrench, remove the two gauge bracket screws/nuts (Figure 24).

3. Remove the gauge bracket and the gauge from the inside of the oxygen door.

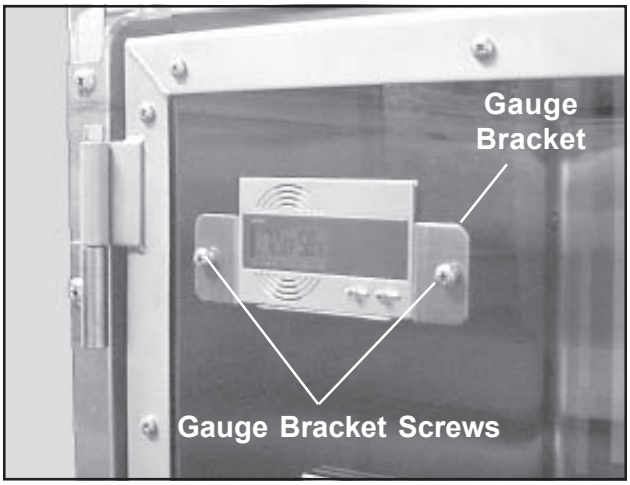


Figure 24. Front View of the New-style Gauge (mounted on door)

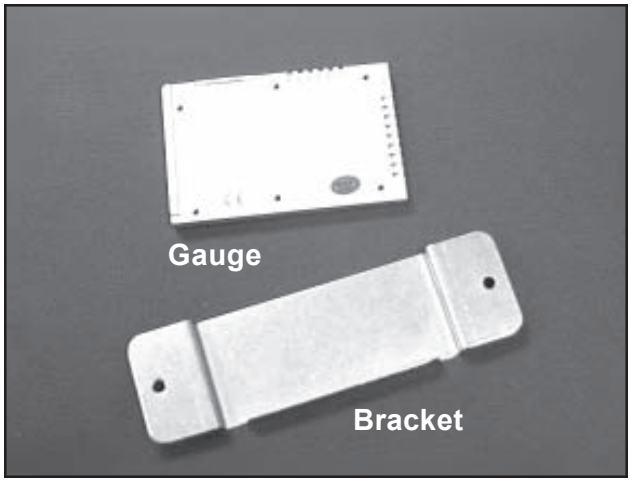


Figure 25. Rear View of the New-style Gauge (removed from door)

Installation of New-style Gauge

1. Order the following from SSCI:
   - New-style Gauge - P/N 854771
   - Gauge Bracket - P/N 600162-2

   Note: Order a new gauge bracket only if replacing an old-style gauge. If replacing a new-style gauge, use your existing bracket.

2. Loosely mount the gauge bracket (Figure 25) onto the inside of the oxygen door with the screws and nuts removed above. Use the existing gauge bracket mounting holes.

3. Place the gauge into the gauge bracket making sure the gauge is right-side-up.

4. Tighten the bracket screws and nuts to secure the gauge.

5. On the front of the polycarbonate door, mark the centers of the two buttons on the face of the gauge (Figure 12).

6. Loosen the gauge bracket nuts and remove the gauge from the door.

7. With a 1/16 in. bit, drill two holes in the door at the locations marked in *Step 5 (*Figure 26). This will provide easy access to the buttons on the front of the gauge.

8. Smooth out the outside and inside edges of the holes to eliminate any rough edges.

9. Remove the tape marked "REMOVE TO START" from the battery compartment. When the tape is removed, the gauge will begin operating.

10. Position the Centigrade/Fahrenheit (°C / ° F) slide switch to display the preferred units (Refer to *Page 13*).

11. Place the gauge into the gauge bracket, again making sure the gauge is right-side-up.

12. Tighten the screws and nuts to secure the gauge.

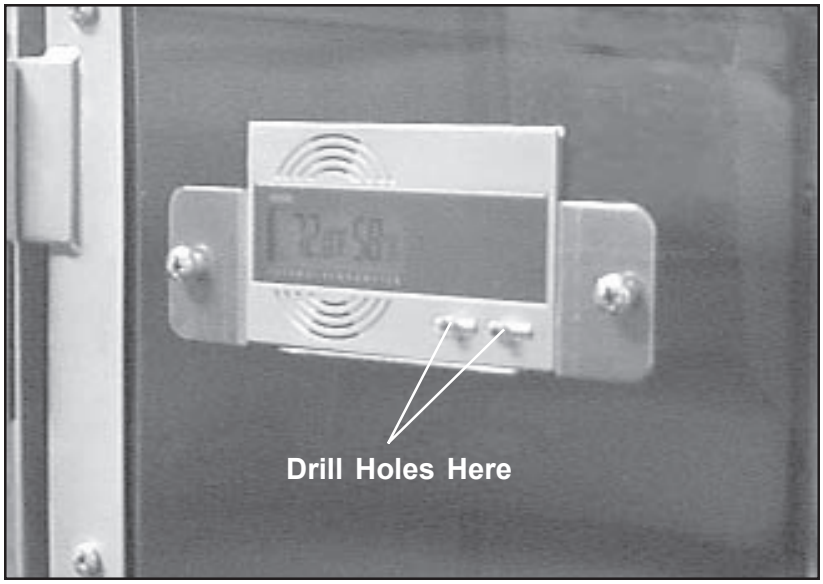


Figure 26. Drilling Button Access Holes

Ice Tray
P/N 202975

Hang the new ice tray on the button hooks provided on the door (Figures 27 and 28).

Figure 27. Ice Tray Button Hooks

Figure 28. Ice Tray in Place

Ice Tray Valve
P/N 854545

Tools Required

- Pliers
- Utility knife

Procedure

1. Remove the ice tray from the oxygen therapy door.
2. If tubing is attached to the valve barb fitting, pull or cut it off.
3. Holding the valve body with a pliers, unscrew the valve from the tray.
4. Screw the new valve into the tray.
5. Reattach any tubing that was connected to the old valve.
6. Hang the ice tray on the oxygen therapy door.

Seal Strip Retainer and Seal Strip

Refer to Tables 3 and 4 for Part Numbers

The following instructions cover both the seal strip retainers and the seal strips. All seal strip retainers are the same except for length and number of mounting holes. The same is true for all seal strips.

Parts Identification

Table 3 on *Page 27* and Table 4 on *Page 28* give the part numbers for the various seal strip retainers and seal strips.
Note: The dimensions refer to the *door/cage size*, and *not* to the actual lengths of the retainers and seals.

Tools Required

- 3/8 in. box-end or open-end wrench
- Phillips screwdriver

Procedure

Note: You do not have to remove the door from the cage to replace a seal strip retainer or a seal strip.

1. Open the oxygen therapy door.

2. With a 3/8 in. wrench and a Phillips screwdriver, remove the mounting nuts and screws (Figures 29 and 30) that hold the seal strip retainer and seal strip to the door.
Note: The number of mounting screws/nuts varies with the dimensions of the door.

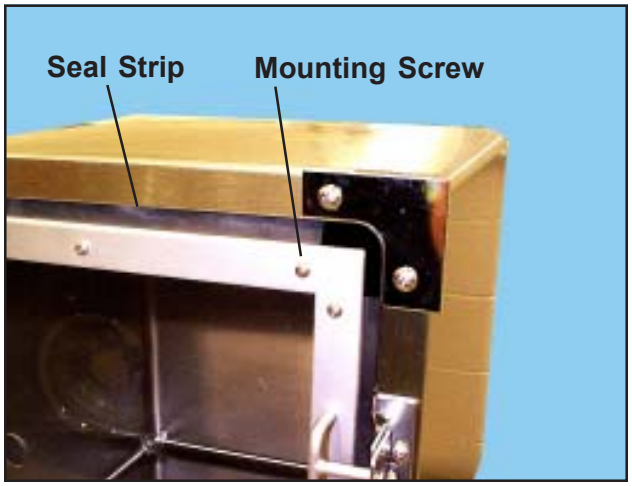


Figure 29. Outside View - Seal Strip and Retainer Mounting Screws

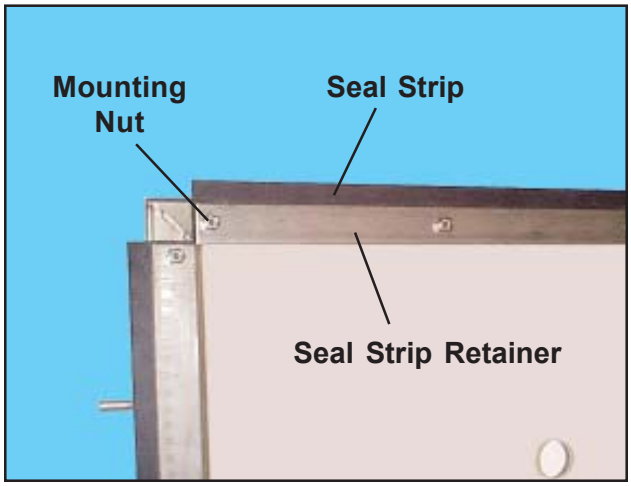


Figure 30. Inside View - Seal Strip Retainer and Seal Strip

3. Lift off the seal strip retainer.

4. If you are replacing the seal strip, remove it at this time.

5. If you are replacing the seal strip, hold the new strip in position.

6. Hold the new or existing seal strip retainer in position.

7. Secure the seal strip and retainer to the door with the screws/nuts you removed in *Step 2*.

8. Close the door and observe the seal to be sure it works satisfactorily.

Door Model	Door Dimensions	Seal Strip Retainer P/N		Quantity
New P/N: 12155-00-DRDRAA Old P/N: 102563-1	24 in. W x 24 in. H 60.96 cm W x 60.96 cm H	All 4 Sides	605365	4
New P/N: 12155-00-DREPAA Old P/N: 102566-1	24 in. W x 30 in. H 60.96 cm W x 76.20 cm H	Top/Bottom	605365	2
		R & L Sides	605367	2
New P/N: 12155-00-EPDRAA Old P/N: 102564-1	30 in. W x 24 in. H 76.20 cm W x 60.96 cm H	Top/Bottom	605367	2
		R & L Sides	605365	2
New P/N: 12155-00-EPEPAA Old P/N: 102567-1	30 in. W x 30 in. H 76.20 cm W x 76.20 cm H	All 4 Sides	605367	4
New P/N: 12155-00-EPFNAA Old P/N: 102568-1	36 in. W x 30 in. H 91.44 cm W x 76.20 cm H	Top/Bottom	605009	2
		R & L Sides	605367	2
New P/N: 12155-00-EPHJAA Old P/N: 102570-1	48 in. W x 30 in. H 121.92 cm W x 76.20 cm H	Top/Bottom	605363	2
		R & L Sides	605367	2
New P/N: 12155-00-FNFNAA Old P/N: 102573-1	36 in. W x 36 in. H 91.44 cm W x 91.44 cm H	All 4 Sides	605009	4
New P/N: 12155-00-FNHJAA Old P/N: 102575-1	48 in. W x 36 in. H 121.92 cm W x 91.44 cm H	Top/Bottom	605363	2
		R & L Sides	605009	2

Table 3. Seal Strip Retainer Part Numbers

Door Model	Door Dimensions	Seal Strip P/N	Quantity
New P/N: 12155-00-DRDRAA Old P/N: 102563-1	24 in. W x 24 in. H 60.96 cm W x 60.96 cm H	All 4 Sides 750910	4
New P/N: 12155-00-DREPAA Old P/N: 102566-1	24 in. W x 30 in. H 60.96 cm W x 76.20 cm H	Top/Bottom 750910	2
		R & L Sides 750832	2
New P/N: 12155-00-EPDRAA Old P/N: 102564-1	30 in. W x 24 in. H 76.20 cm W x 60.96 cm H	Top/Bottom 750832	2
		R & L Sides 750910	2
New P/N: 12155-00-EPEPAA Old P/N: 102567-1	30 in. W x 30 in. H 76.20 cm W x 76.20 cm H	All 4 Sides 750832	4
New P/N: 12155-00-EPFNAA Old P/N: 102568-1	36 in. W x 30 in. H 91.44 cm W x 76.20 cm H	Top/Bottom 750831	2
		R & L Sides 750832	2
New P/N: 12155-00-EPHJAA Old P/N: 102570-1	48 in. W x 30 in. H 121.92 cm W x 76.20 cm H	Top/Bottom 750909	2
		R & L Sides 750832	2
New P/N: 12155-00-FNFNAA Old P/N: 102573-1	36 in. W x 36 in. H 91.44 cm W x 91.44 cm H	All 4 Sides 750831	4
New P/N: 12155-00-FNHJA Old P/N: 102575-1	48 in. W x 36 in. H 121.92 cm W x 91.44 cm H	Top/Bottom 750909	2
		R & L Sides 750831	2

Table 4. Seal Strip Part Numbers

Chapter 5 - Troubleshooting

Warning: **Oxygen is a highly combustible gas. Avoid the use of open flames, smoking materials, or equipment capable of producing sparks in any area in which oxygen is being used.**
Before servicing or performing maintenance on the oxygen therapy door, make sure the oxygen supply is turned off at the source.

General

The following procedures will help you fix most of the problems that you might encounter with the Oxygen Therapy Door. If necessary, please feel free to call SSCI Customer Service at (800) 323-7366. Our experienced Technical Support personnel will be glad to help you.

For more information on contacting SSCI, refer to *SSCI Contact Information* on *Page 5*.

Part numbers for available replacement parts are shown in Table 2 on *Page 17*. To order replacement parts, refer to *Parts Ordering Procedure* on *Page 18*.

Possible problems are listed below along with their page references:

Page numbers shown in the *Remedial Action* sections direct you to step-by-step directions on replacing specific parts. Refer to *Chapter 4, Repairs and Replacements.*

If your oxygen therapy door must be returned to SSCI for repairs, refer to *Returning the Oxygen Therapy Door for Repairs* on *Page 30* for directions.

Returning the Oxygen Therapy Door for Repairs

RMA Numbers

If your door should require return to SSCI for repairs, discuss the problem with one of our Customer Service Representatives. Obtain an RMA number (Return Merchandise Authorization) from him before shipping the unit back. **Note:** SSCI will *not* accept merchandise returned without an RMA number.

Packing and Shipment

If you were able to keep the door shipping carton, repack the door into the carton, staple or tape the cover securely in place.

If the shipping carton is not available, package the door securely in a suitable container. Ship documentation with the door including:

- Destination
- RMA Number
- Your name, company and address
- Your telephone number
- A description of the reason for returning the door

There is no oxygen flow into the cage.

Remedial Action

First: Make sure that the oxygen supply is turned on at the source and that your oxygen supply tank is not empty.

Second: Make sure the oxygen therapy door is properly closed and latched and not allowing oxygen to escape.

Third: Make sure the nebulizer bottle is in place and fully tightened.

Fourth: Check the regulator on the nebulizer to make sure it is properly adjusted. Refer to *Oxygen Concentration Control* on *Page 15*.

Fifth: Check the oxygen supply hose for kinks, leaks, or clogs. If the hose is kinked or restricted at any point, straighten the hose to remove the restriction. If you find a leak, *immediately* turn off the oxygen supply at the source.

a. If the leak is at the oxygen source, call your oxygen supplier for repairs.

b. If the leak is in the oxygen supply hose, call SSCI and order a replacement hose, P/N 750492. Refer to *Page 20* for replacement procedures.

c. If the leak is at the supply hose barb connector, remove the hose from the connector. Cut about 1.5 in. off the end of the hose, and reconnect the hose to the barb connector.

d. If the leak is between the barb connector and the 4-arm knob on top the regulator, try to tighten the barb connector with a 5/8 in. wrench. If this doesn't stop the leak, there are probably damaged threads on the barb connector or in the regulator. Call SSCI and order a replacement barb fitting, P/N 854546 or a partial nebulizer assembly, P/N 749510. Refer to *Page 21* for replacement instructions for the barb fitting, or *Page 20* for the partial nebulizer assembly.

Sixth: Dirt or foreign matter may have entered the nebulizer and is blocking the oxygen flow. Refer to *Cleaning Instructions* on *Page 16*.

There is excessive oxygen leakage from the cage.

Remedial Action

Note: Some oxygen leakage is normal. The corners of the cage are left open to help distribute the oxygen in the cage uniformly and to allow for the escape of carbon dioxide. If you feel that the amount of leakage is excessive, perform the following steps.

First: Make sure the door is properly closed and latched. If the door does not close or latch properly, the latch brackets are probably out of adjustment. Refer to *Latch Adjustment* on *Page 11*.

Second: Make sure the oxygen supply pressure is not set too high.

Third: There are black rubber seals on all four sides of the door. Check all four door seals to make sure that none are missing, loose, or damaged. If a seal is loose, tighten the mounting screws/nuts on that seal. If a missing or damaged seal is found, call SSCI and order a replacement. Refer to *Page 25* for part numbers and replacement instructions.

The door does not close or latch correctly.

Remedial Action

The latch brackets are probably out of adjustment. Refer to *Latch Adjustment* on *Page 11*.

One or both of the gauges does not read correctly.

Remedial Action

One or both of the gauges is defective. The gauges are not repairable and must be replaced. Call SSCI and order a new gauge assembly, P/N 854117. Refer to *Page 22* for replacement procedures.

Inside back cover

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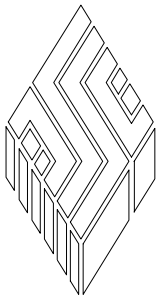
For more information on SSCI's fine line of products and accessories, talk to your SSCI sales representative.



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