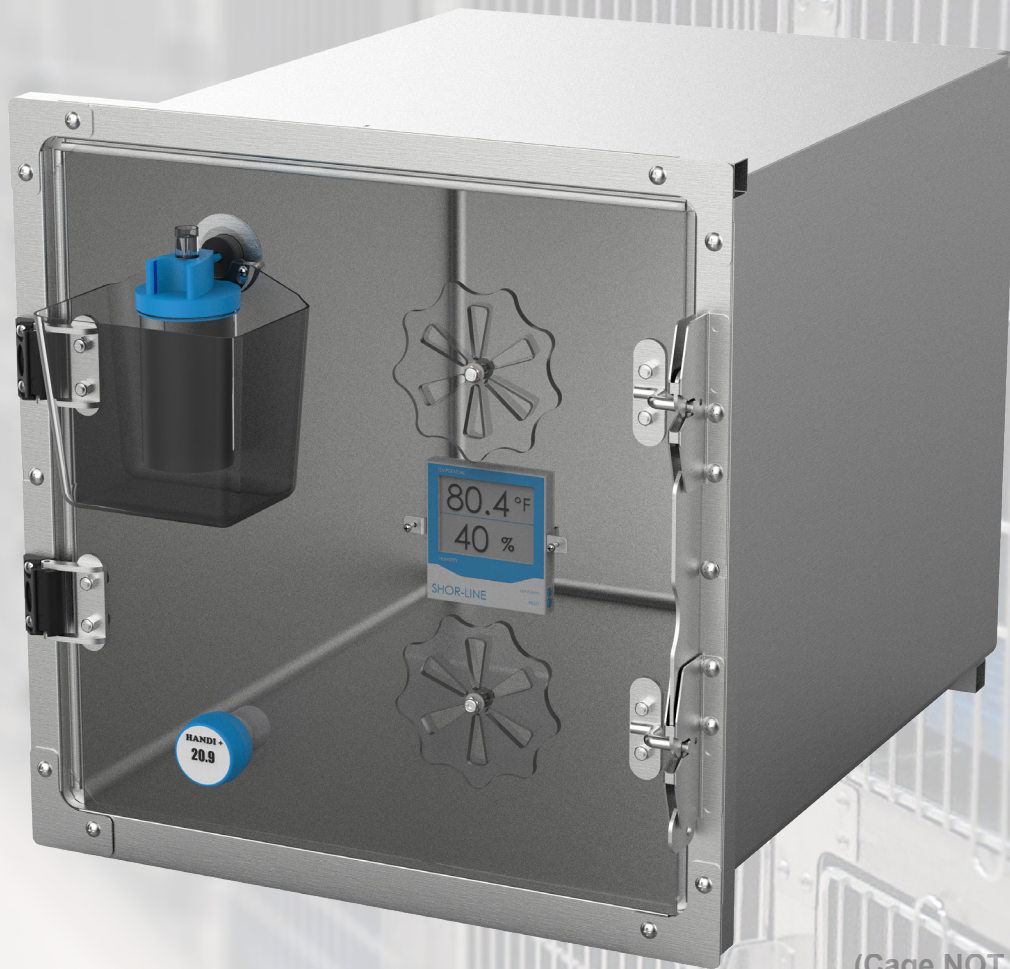


# SHOR-LINE®

## Oxygen Therapy Plus Door

---

### ASSEMBLY GUIDE



(Cage NOT Included)

Oxygen Therapy Plus Door  
(30x30 Door Configuration Shown)

Save This Guide For Future Reference  
PN: 006.9140.20

January 2019

### Introduction

Thank you for purchasing Shor-Line products. As a leader in animal care equipment, our commitment to provide quality products and personable customer service is the same as it was in 1927.

This Guide provides information regarding the installation, use, and care of your Shor-Line product. Keep this Guide in a safe and convenient place for reference.

For further questions, to purchase additional products, or to replace a lost or damaged Guide, please feel free to contact Shor-Line:

#### SHOR-LINE

Schroer Manufacturing Company

511 Osage Ave.

Kansas City, Kansas 66105, USA

PHONE: 800.444.1579

LOCAL: 913.281.1500

FAX: 913.281.5339

EMAIL: [guides@shor-line.com](mailto:guides@shor-line.com)

WEB ADDRESS: SHOR-LINE.com

#### SHOR-LINE LIMITED

Vale Business Park Llandow,

Vale of Glamorgan CF71 7PF

United Kingdom

PHONE: +44 1446 77 20 41

FAX: +44 1446 77 36 68

EMAIL: [quality@shor-line.co.uk](mailto:quality@shor-line.co.uk)

WEB ADDRESS: SHOR-LINE.co.uk

Shor-Line may provide instructions that supplement or supersede this Guide at any time. Contact Shor-Line to ensure the Guide is the latest version.

During installation, if a contradiction between this Guide, existing conditions, or local regulations arise, contact a Shor-Line representative before proceeding with installation.

Visit [Shor-line.com](http://Shor-line.com) for a full list of TERMS AND CONDITIONS.

© Copyright 2019 Schroer Manufacturing Company. All rights reserved.



**DANGER**

**READ THIS GUIDE COMPLETELY BEFORE INSTALLATION AND USE AND THOROUGHLY UNDERSTAND AND FOLLOW ALL SAFETY INSTRUCTIONS.**



**WARNING**

**WEAR PERSONAL PROTECTIVE EQUIPMENT, such as, but not limited to, eye protection, back support brace, and gloves during installation. Failure to do so could result in SERIOUS INJURY.**



**CAUTION**

**This product is intended to be used for animals only. Do not use for anything other than the intended purpose.**

## INTRODUCTION

Introduction .....	ii
--------------------	----

## GENERAL INFORMATION

General information.....	1
Safety Alert Symbol .....	1
Personal Protective Equipment (PPE).....	1
Safety Warnings Included In This Guide .....	2

## SECTION ONE, PRE-ASSEMBLY

Shipment Inventory And Inspection.....	3
Oxygen Therapy Plus Door - Single Door Configuration.....	3
Oxygen Therapy Plus Door - Double Door Conversion Kit .....	3
Shipment Inventory.....	3
Shipment Inspection .....	3
Damage Reporting .....	4
Oxygen Therapy Plus Door Sizes .....	4
Component Parts List .....	5
Hardware Parts List.....	6

## SECTION TWO, ASSEMBLY PROCEDURES

Assembly Procedures .....	7
Oxygen Therapy Plus Door Configurations .....	7
Cage Door Removal - Single Door .....	7
Cage Door Removal - Double Door.....	8
Double Door Latch Bar Removal .....	8
Oxygen Therapy Plus Door Installation .....	10
Oxygen Therapy Plus Door Installation - Double Door.....	11

## SECTION THREE, USE AND CARE

Oxygen Therapy Plus Door Use And Care .....	13
Safe Use Practices .....	13
Component Instructions.....	13
Humidifier.....	13
Oxygen Analyzer.....	14
Thermometer/Hygrometer .....	15
Adjustable Vents .....	15
Reversing Cage Door Swing .....	15
Cage Hardware.....	15
Door Rotation/Component Relocation .....	17
Hinge Bushing Procedures.....	19
General Maintenance & Care .....	20
Maintenance Recommendations .....	20
Care Recommendations .....	20

## SECTION FOUR, TERMS & CONDITIONS

Terms And Conditions .....	21
Damaged Freight Procedures .....	21
Limited Warranty .....	22
Contact Information.....	23

## General information

Refer to the Guide, images and content to assist with the installation of the product. Throughout the Guide, safety notices provide help for a successful installation.

The Oxygen Therapy Plus Door is also referred to as the "O<sub>2</sub> Door" in this document.

## SAFETY FIRST!

Shor-Line uses the following symbols and signal words to identify potential hazards or unsafe practices:

### Safety Alert Symbol



*Indicates a potential personal injury hazard exists. It is important to heed any safety warning information associated with this alert symbol.*

### Signal Words for Hazard Alerting Safety Messages



*Indicates a hazardous situation which, if not avoided, WILL result in serious injury or death.*



*Indicates a hazardous situation which, if not avoided, COULD result in serious injury or death.*



*Indicates a hazardous situation which, if not avoided, COULD result in minor or moderate injury.*

### Important Information Symbol



*Indicates information considered important but not directly hazard related.*

## Personal Protective Equipment (PPE)

PPE refers to protective clothing or other equipment designed to protect against injury. It is the responsibility of the client/installer to ensure all local and federal codes are adhered to during the installation and assembly of this product. Included is a list of PPE items suggested, but not limited to, protective equipment to help complete the installation safely.

- Eye protection
- Gloves
- Metatarsal, foot protection
- Back Support Brace

Shor-Line makes no guarantee, implied or otherwise, that the information included in this Guide will be complete or failsafe, or that the information will prevent an injury from occurring. Standard measures described may not reflect the full extent of all steps that may need to be taken in any given emergency instance.

### California Proposition 65 Warning



*This product can expose you to chemicals including chromium, which are known to the state of California to cause cancer. For more information go to: [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)*

## Safety Warnings Included In This Guide

**DANGER**

**READ THIS GUIDE COMPLETELY BEFORE INSTALLATION AND USE AND THOROUGHLY UNDERSTAND AND FOLLOW ALL SAFETY INSTRUCTIONS.**

**WARNING**

**WEAR PERSONAL PROTECTIVE EQUIPMENT (PPE), such as, but not limited to, eye protection, protective gloves and Metatarsal/foot protection during installation. Failure to do so could result in SERIOUS INJURY.**

**Enlist help and USE SAFE LIFTING PRACTICES during assembly, installation and moving equipment.**

**Oxygen Therapy Plus Doors and Stainless Steel Cages have sharp edges, stay clear of and DO NOT TOUCH exposed edges which, if not avoided, could result in SERIOUS INJURY OR DEATH.**

**CAUTION**

**This product is intended to be used for animals only. Do not use for anything other than the intended purpose.**

**Keep hands clear of possible pinch areas when assembling parts, which if not avoided, could result in MINOR to MODERATE INJURY.**

**Keep hands, fingers and patients limbs clear of possible pinch areas when adjusting the vents, which if not avoided, could result in MINOR to MODERATE INJURY.**



## Shipment Inventory And Inspection

### Oxygen Therapy Plus Door - Single Door Configuration

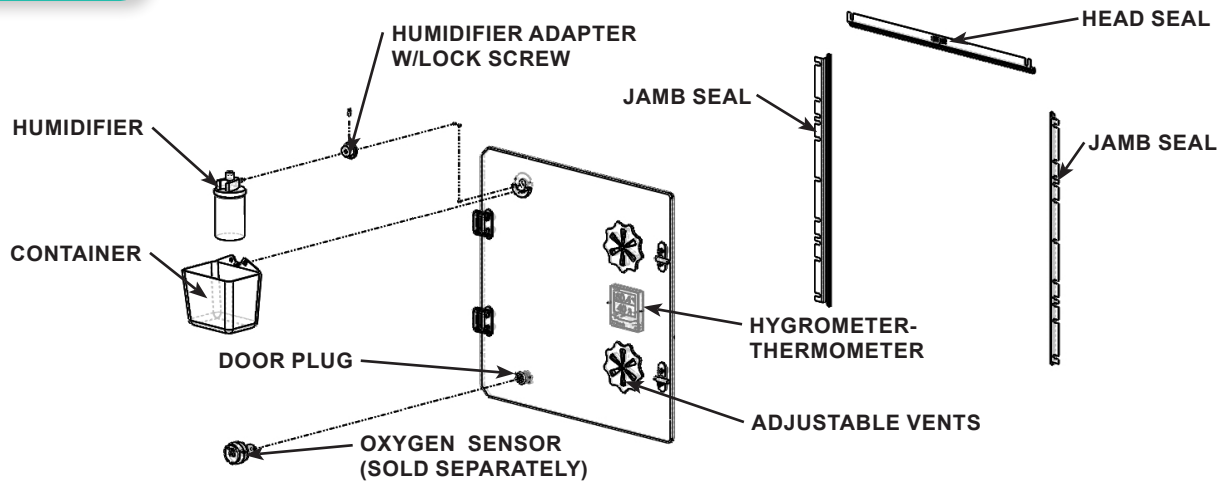


FIGURE 1.1 - Typical Oxygen Therapy Plus Door - Single Door Configuration

### Oxygen Therapy Plus Door - Double Door Conversion Kit

The Double Door Conversion Kit is the sum of the parts required to convert a Single Therapy Door cage to a Double Door Configuration.

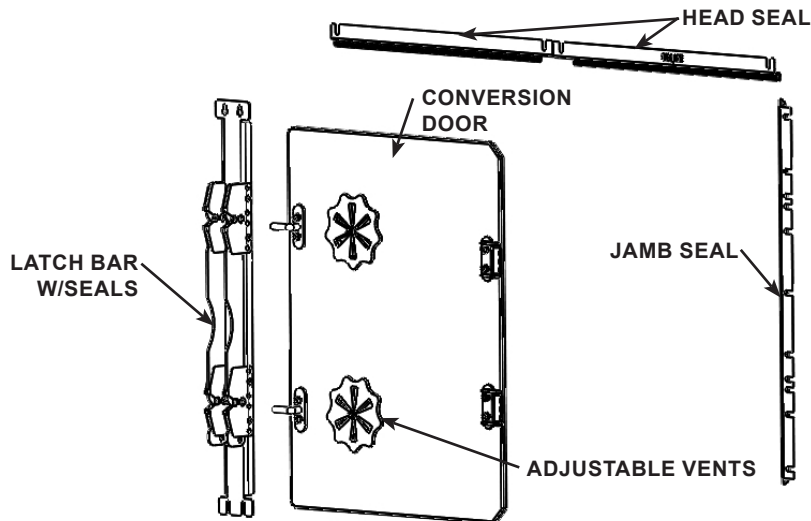


FIGURE 1.2 - Typical Oxygen Therapy Plus Door - Double Door Conversion Kit

### Shipment Inventory

At arrival, unpack and inspect the shipment to ensure it is complete and free of damages that may have occurred during shipping. Compare the packing list with the shipment to ensure all parts/components have been received in good condition. See FIGURES 1.1-1.5

#### NOTICE

**Avoid using razor blade or cutting devices, product surfaces scratch easily.**

### Shipment Inspection

While verifying the shipment contents, take a moment to inspect each component for damage. This should be done before the shipment is signed received and accepted. If damaged components are apparent, follow the claim procedures set forth by the carrier.

## Damage Reporting

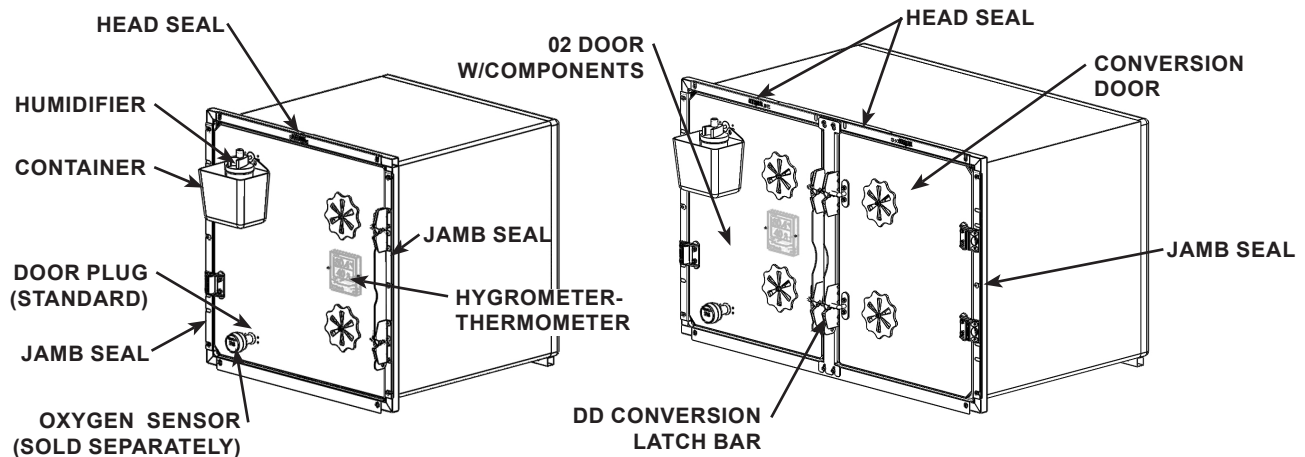
Follow the instructions within Shor-Line's Damage and Freight Procedures. Contact Shor-Line (800.444.1579) immediately to expedite the process.

### NOTICE

*After fifteen (15) calendar days of receipt of merchandise, policies become void.*

## Oxygen Therapy Plus Door Sizes

Oxygen Therapy Plus Doors are available in many sizes and can be configured for single door (SD) or double door (DD) cage applications to best serve a variety of space conditions and facility requirements. Refer to FIGURE 1.3



NOTE: STAINLESS STEEL CAGES NOT INCLUDED

**FIGURE 1.3 - Oxygen Therapy Plus Door (30x30" SD & 48x30" DD Shown)**

Part #	Description
Single Door Conversion Kit:	
914.2424.20	DOOR,24X24,OXYGEN THERAPY PLUS
914.2430.20	DOOR,24X30,OXYGEN THERAPY PLUS
914.2436.20	DOOR,24X36,OXYGEN THERAPY PLUS
914.3030.20	DOOR,30X30,OXYGEN THERAPY PLUS
914.3036.20	DOOR,30X36,OXYGEN THERAPY PLUS
914.3624.20	DOOR,36X24,OXYGEN THERAPY PLUS
914.3630.20	DOOR,36X30,OXYGEN THERAPY PLUS
914.3636.20	DOOR,36X36,OXYGEN THERAPY PLUS
Double Door Conversion Kit:	
914.2430.21	DOOR,24X30,O2 CONVERSION
• 301.0220.09	• DOOR,24 X 30 GLASS CONVERSION,TYPE 4
• 300.2384.00	• BRACKET,DD,TOP,LH,24 IN,O2 DOOR PLUS
• 300.2385.00	• BRACKET,DD,TOP,RH,24 IN,O2 DOOR PLUS
• 714.0008.00	• ASSY,30 IN DD CHANNEL,O2 DOOR PLUS
• 300.2302.00	• BRACKET,SIDE,30 IN,O2 DOOR PLUS
914.2436.21	DOOR,24X36,O2 CONVERSION
• 301.0220.10	• DOOR,24 X 36 GLASS CONVERSION,TYPE 4
• 300.2384.00	• BRACKET,DD,TOP,LH,24 IN,O2 DOOR PLUS
• 300.2385.00	• BRACKET,DD,TOP,RH,24 IN,O2 DOOR PLUS
• 714.0009.00	• ASSY,36 IN DD CHANNEL,O2 DOOR PLUS
• 300.2302.00	• BRACKET,SIDE,30 IN,O2 DOOR PLUS

## SECTION ONE

### Component Parts List

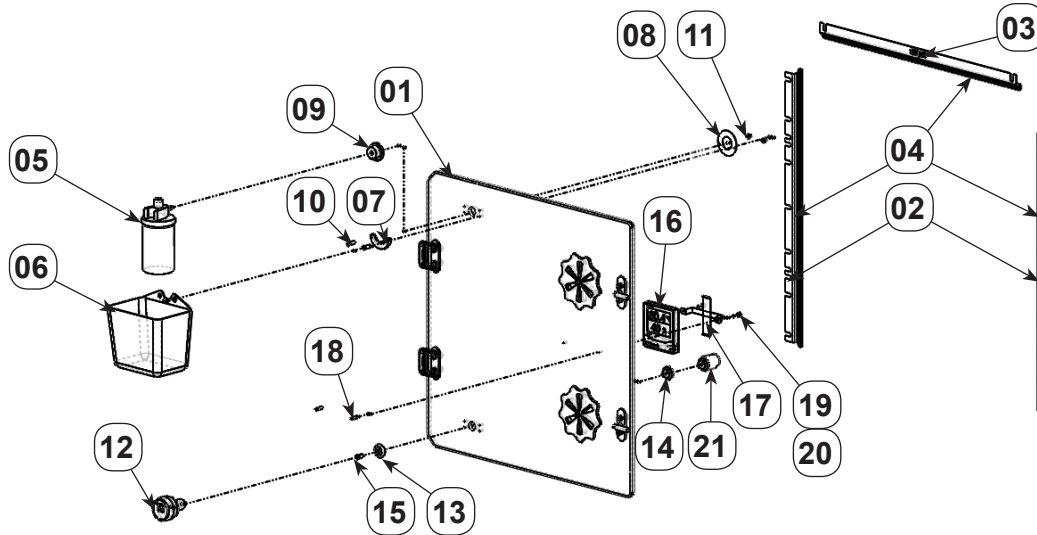


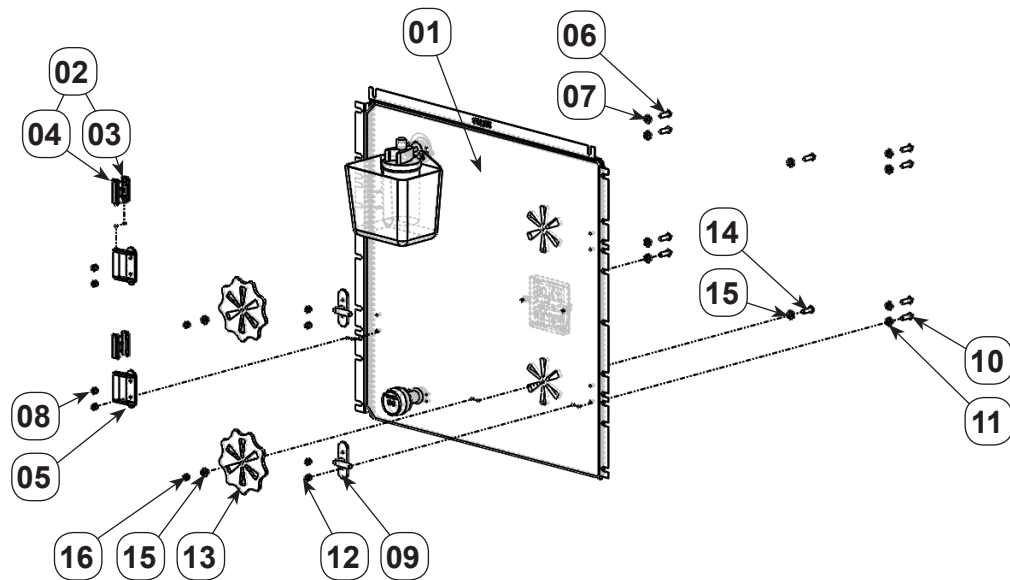
FIGURE 1.4 - Oxygen Therapy Plus Door (30x30" Shown)

Item	Part #	Description	Qty
<b>01</b>	NOTE 1	DOOR, GLASS WITH VENTS, TYPE 4	1
<b>02</b>	NOTE 1	BRACKET, SIDE, O2 DOOR PLUS (Jamb Seal)	2
<b>03</b>	NOTE 1	BRACKET, TOP, O2 DOOR PLUS (Head Seal)	1
<b>04</b>	• 182.0009.00	• SEAL, .360X.5D W-H2 38 EPDM	Per Foot
<b>05</b>	025.0004.00	HUMIDIFIER (3 ea. initial shipment) Replacements Sold Separately	1
<b>06</b>	301.0207.01	CONTAINER PLASTIC, O2 DOOR	1
<b>07</b>	• 310.0206.00	• ALUMINUM BRACKET	1
<b>08</b>	• 310.1181.00	• WASHER, O2 DOOR, ALUMINUM	1
<b>09</b>	• 310.0209.00	• ADAPTER, HUMIDIFIER	1
<b>10</b>	• 061.1008.01	• #10-32X.875 RD HD PHILLIPS SS	2
<b>11</b>	• 063.1000.00	• #10-32 HX NUT NYLOCK SS	2
<b>12</b>	195.1377.00	O2 ANALYZER, OXYGEN THERAPY PLUS (SOLD SEPARATELY)	1
<b>13</b>	• 300.2315.00	• HOLE PLUG MALE, O2 DOOR	1
<b>14</b>	• 300.2314.00	• HOLE PLUG, FEMALE, O2 DOOR	1
<b>15</b>	• 062.2507.03	• .250-20 X .750 FLAT HD PHL SS	1
<b>16</b>	025.0005.00	HYGROMETER-THERMOMETER-BIG DIGIT	1
<b>17</b>	• 714.0000.18	• WELDMENT, BRKT, HYGRO-THERMO	1
<b>18</b>	• 062.0607.01	• #6-32X.750 RD HD PHL SS	2
<b>19</b>	• 065.0600.10	• #6 SPLIT LOCK WASHER, PLTD	2
<b>20</b>	• 064.0600.10	• #6-32 ACORN NUT SAE HI-CROWN SS	2
<b>21</b>	300.2309.00	COVER, O2 ANALYZER, TP 4 DOOR	1

NOTE 1 - Sizes vary, contact Shor-Line Technical Service Department to verify cage sizes (1.800.444.1579)



## Hardware Parts List



**FIGURE 1.5 - Oxygen Therapy Plus Door Hardware**

Item	Part #	Description	Qty
<b>01</b>	NOTE 1	DOOR, GLASS WITH VENTS, TYPE 4	1
<b>02</b>	714.0001.00	WELDMNT, HINGE TYPE 4	2
<b>03</b>	• 181.0063.00	• BUSHING, HINGE, MALE, KENNEL, TYPE 3	2
<b>04</b>	• 181.0063.01	• BUSHING, HINGE, FEMALE, KENNEL, TYPE 3	2
<b>05</b>	714.0001.00	DOOR HINGE POST	2
<b>06</b>	• 062.2510.05	• .250-20 X 1.000 TRUSS HD PHIL SS	4
<b>07</b>	• 065.2500.00	• .250 FL WASH SAE SS	4
<b>08</b>	• 064.2500.02	• .250-20 HX NUT NYLOCK SS	4
<b>09</b>	714.0002.00	WELDMNT, LATCH PIN, TYPE 4 DOOR	2
<b>10</b>	• 062.2510.05	• .250-20 X 1.000 TRUSS HD PHIL SS	4
<b>11</b>	• 065.2500.00	• .250 FL WASH SAE SS	4
<b>12</b>	• 064.2500.02	• .250-20 HX NUT NYLOCK SS	4
<b>13</b>	301.0220.11	DOOR, VENT COVER, TYPE 4	2
<b>14</b>	• 062.2510.05	• .250-20 X 1.000 TRUSS HD PHIL SS	2
<b>15</b>	• 065.2500.00	• .250 FL WASH SAE SS	4
<b>16</b>	• 064.2500.02	• .250-20 HX NUT NYLOCK SS	2

NOTE 1 - Sizes vary, contact Shor-Line Technical Service Department to verify cage sizes (1.800.444.1579)

# SECTION TWO

## Assembly Procedures

### Oxygen Therapy Plus Door Configurations

Oxygen Therapy Plus Door (O<sub>2</sub> Door) is available in several sizes. The doors are designed to be installed onto existing (sold separately) stainless steel cages. Verify the width and height of the cage with the dimensions of the O<sub>2</sub> Door to be installed.

The O<sub>2</sub> Door is equipped with Type III hinges, but with a hinge conversion kit the Type III O<sub>2</sub> Door can be used with some older model Type II hinge cages. Contact Shor-Line Technical Service department to verify cage door types and compatibility (1.800.444.1579).

A second door equipped with vents only is used in combination with an O<sub>2</sub> Door when converting a 48" wide cage to a double door oxygen therapy cage. Double door cages share a latch bar centered between the doors. The door hardware and components can be reoriented to either locate the O<sub>2</sub> Door on the left or right side of the cage.

#### NOTICE

**Do NOT use power tools for any procedures listed in this manual. Doing so can scratch product surfaces and/or cause hardware to fail. Do NOT over-tighten hardware.**

### Cage Door Removal - Single Door

Door hinges may vary depending on the cage model used for the Oxygen Therapy Plus Door configuration. Type III cages are used for these procedures. Contact Shor-Line for door removal procedures and hardware requirements for older model cages.

If equipped, lock all casters on mobile cage banks to prevent movement during the installation procedures.



**Enlist help and USE SAFE LIFTING PRACTICES during assembly, installation and moving equipment.**



**Keep hands clear of possible pinch areas when assembling parts, which if not avoided, could result in MINOR to MODERATE INJURY.**

**STEP 1:** Slide the latch bar up and swing the door to the open position (90° to cage face). See FIGURE 2.1

**STEP 2:** Lift the door upward, sliding the bushings out of the hinge assemblies. Set away from the assembly area. See FIGURE 2.2

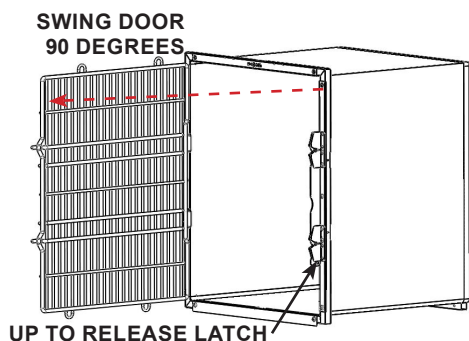


FIGURE 2.1 - Open Door 90°

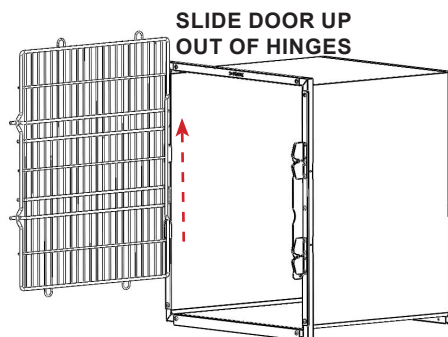


FIGURE 2.2 - Door Removal

**STEP 3:** Clean and store unused grill doors and hardware for future re-installation, if needed.

## Cage Door Removal - Double Door

Door hinges may vary depending on the release model of the cages. Type III cages are used for this procedure. Contact Shor-Line for door removal procedures for older model cages.

**STEP 1:** Slide the latch bar up and swing the door to the open position (90° to cage face). See FIGURE 2.3

**STEP 2:** Lift the door up, sliding the bushings out of the hinge assembly. Set away from the assembly area. See FIGURE 2.4

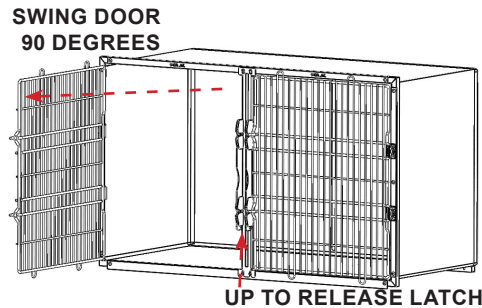


FIGURE 2.3 - Open Door

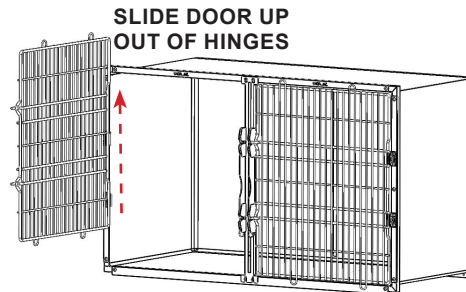


FIGURE 2.4 - Door Removal



**WARNING**

Enlist help and **USE SAFE LIFTING PRACTICES** during assembly, installation and moving equipment.



**CAUTION**

Keep hands clear of possible pinch areas when assembling parts, which if not avoided, could result in **MINOR to MODERATE INJURY**.

**STEP 3:** Repeat Steps 1 and 2 to remove the second door.

**STEP 4:** Clean and store unused grill doors and hardware for future re-installation, if needed.

## Double Door Latch Bar Removal

Shor-Line's double door cage share a latch bar that can be easily removed for greater access when transferring a patient into or out of the cage comfortably.

The latch bar is also used for the divider panel. The larger, double door cages can be split into two cages by inserting the divider panel. Divider panels are sold separately, contact Shor-Line for size availability.

To convert a double door cage to an Oxygen Therapy cage, the latch bar must be replaced with the latch bar which include jamb seal strips.

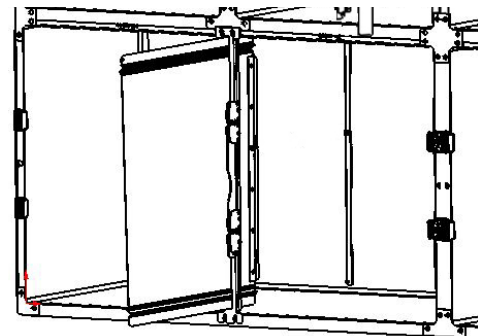


FIGURE 2.5 - Center Latch w/Divider

**NOTICE**

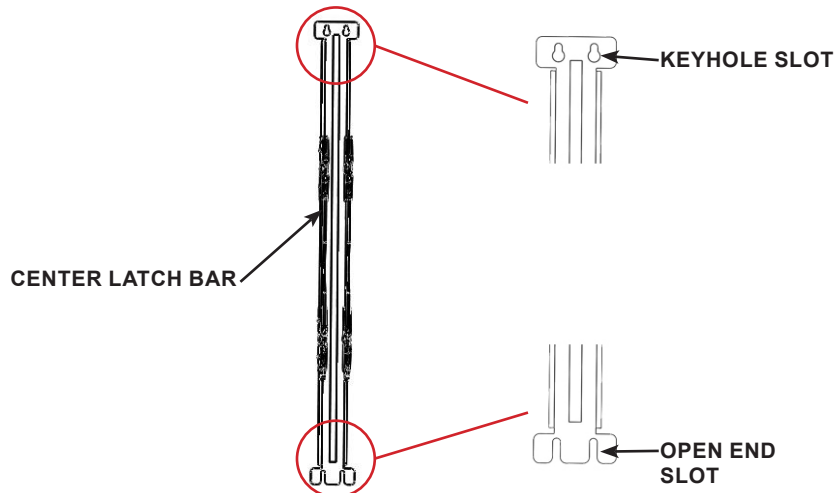
The **O<sub>2</sub> Door latch bar** is **NOT** equipped with a center divider slot. Center dividers do not seal the cage space. Store center dividers with the removed grill doors and center latch bar assembly for future use.

## SECTION TWO

**STEP 1:** Open or remove both doors if not already done so.

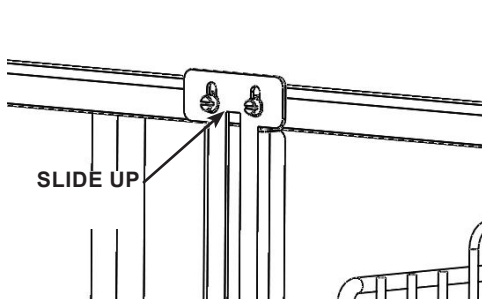
### NOTICE

*The latch bar has keyed (hole with a smaller slot) top holes. And the bottom of the latch bar uses open end slots, enabling the bar to be slid out from behind the latch bar retaining pins. See FIGURE 2.6*

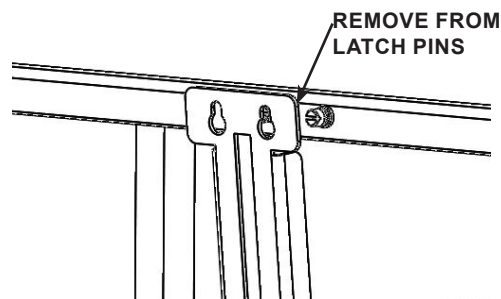


**FIGURE 2.6 - Standard Double Door Latch Bar**

**STEP 2:** Lift the latch bar upward to clear the keyhole slots located at the top of the latch bar. See FIGURE 2.7



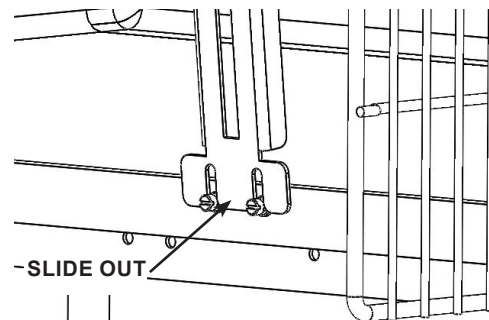
**FIGURE 2.7 - Latch Top Keyhole Slot**



**FIGURE 2.8 - Remove Latch Top**

**STEP 3:** Once clear of the keyhole slot, pull the top of the latch bar clear of the latch upper pins. See FIGURE 2.8

**STEP 4:** Lift the latch bar upward to clear the latch pins located at the bottom. The bottom of the latch bar has open end slots at the end of the bar to easily slide out from behind the latch lower pins. See FIGURE 2.9



**FIGURE 2.9 - Remove Latch Bottom**

## Oxygen Therapy Plus Door Installation

The O<sub>2</sub> Door and components are packaged in separate boxes. Unpack and organize the door components for assembly and installation.

**WARNING** Enlist help and **USE SAFE LIFTING PRACTICES** during assembly, installation and moving equipment.

**CAUTION** Keep hands clear of possible pinch areas when assembling parts, which if not avoided, could result in **MINOR to MODERATE INJURY**.

LOOSEN, DO NOT REMOVE

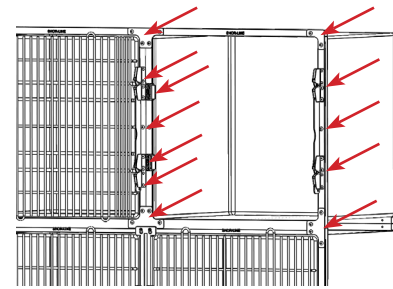


FIGURE 2.10 - Loosen Trim

**STEP 1:** Loosen trim plates, hinges, latch bar and trim strips. Do NOT remove screws or hardware. See FIGURE 2.10

**STEP 2:** Align the slots on the jamb seal (side) with the hardware screws. Slide the jamb seal under the trim plates, strips and hardware. Secure the jamb seal with the center screw, do NOT fully tighten. See FIGURE 2.11

**STEP 3:** Repeat STEP 2 for opposite side jamb seal.

**STEP 4:** Align the slots on the head seal (top) with the hardware screws. Slide the head seal under the trim plates. Secure the head seal by tightening the top trim plate screws. See FIGURE 2.12

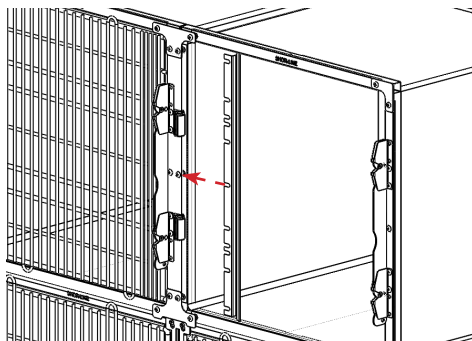


FIGURE 2.11 - Jamb Seal Installation

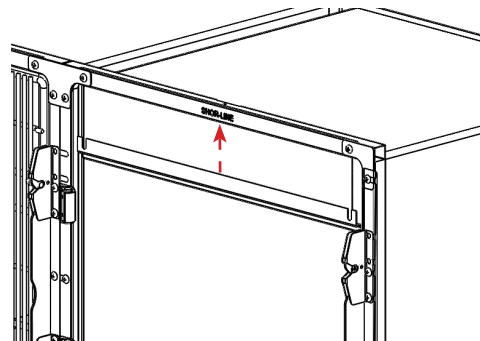


FIGURE 2.12 - Head Seal Installation

**STEP 5:** Tighten all trim plates, strips and hardware to secure the jamb and head seals in place.

**STEP 6:** Install the O<sub>2</sub> Door by holding the door hinge pins/bushings above the cage hinges at a 90° angle to the face of the cage. Slide the hinge pins/bushings down into the hinges. See FIGURE 2.13

**NOTICE** The hinge bushings have a flat side that slide through the opening in the hinge assembly. The flat side of the bushings must be facing away from the cage to align with the hinges. The hinge bushing must fully seat into the hinge for proper operation.

**STEP 7:** Close the door, check latch operation and adjust alignment to ensure the O<sub>2</sub> Door latches correctly.

PERPENDICULAR TO CAGE FACE

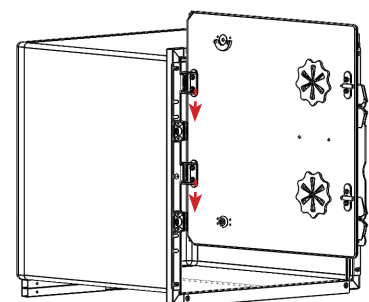


FIGURE 2.13 - Door Installation



## SECTION TWO

### Oxygen Therapy Plus Door Installation - Double Door

The O<sub>2</sub> Door and components are packaged in separate boxes. Unpack and organize the door components for assembly and installation.

If equipped, lock all casters on mobile cage banks to prevent movement during the installation procedures.

**⚠ WARNING** Enlist help and **USE SAFE LIFTING PRACTICES** during assembly, installation and moving equipment.

**⚠ CAUTION** Keep hands clear of possible pinch areas when assembling parts, which if not avoided, could result in **MINOR to MODERATE INJURY**.



FIGURE 2.14 - Loosen Hardware

**STEP 1:** Loosen trim plates, hinges and trim strips. Do NOT remove screws or hardware. See FIGURE 2.14

**STEP 2:** Align the slots on the jamb seal (side) with the hardware screws. Slide the jamb seal under the trim plates, strips and hardware. Secure the jamb seal with the center screw, do NOT fully tighten. See FIGURE 2.15

**STEP 3:** Repeat STEP 2 for the opposite side jamb seal. See FIGURE 2.16

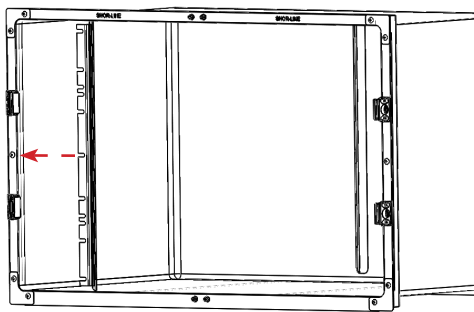


FIGURE 2.15 - Left Jamb Seal Installation

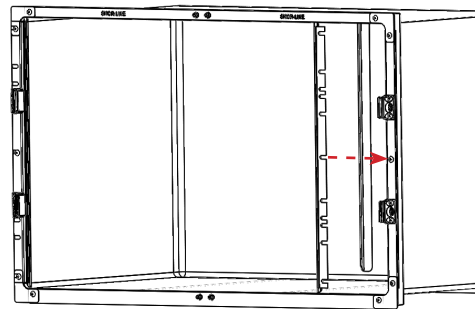


FIGURE 2.16 - Right Jamb Seal Installation

**STEP 4:** Align the slots on the head seal (top) with the hardware screws. Slide the head seal under the trim plates. Secure the head seal by tightening the top trim plate screws. Do NOT fully tighten. See FIGURE 2.17

**STEP 5:** Tighten all trim plates, strips and hardware to secure the jamb and head seals in place. See FIGURE 2.18

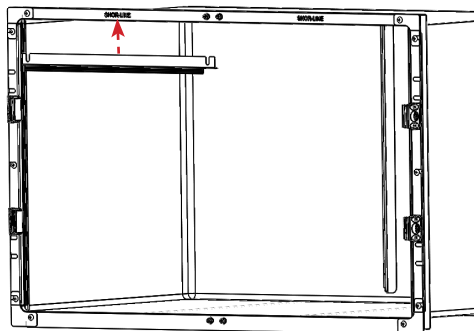


FIGURE 2.17 - Left Head Seal Installation

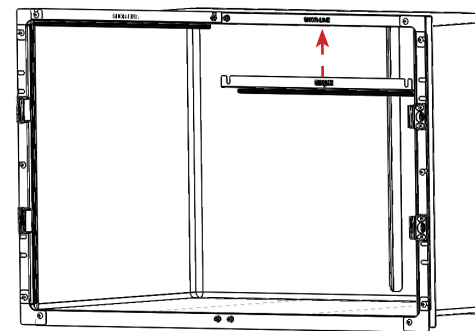


FIGURE 2.18 - Right Head Seal Installation

**STEP 6:** The double door conversion kit includes a latch bar equipped with jamb seals. Follow the latch bar removal procedures (reverse order) to install the new latch bar assembly. See FIGURE 2.19

**NOTICE**

*Ensure the slots in the end of the latch bar are located on the bottom of the cage.*

**STEP 7:** Install the O<sub>2</sub> Door by holding the door hinge pins/bushings above the cage hinges at a 90° angle to the face of the cage. Slide the hinge pins/bushings down into the hinges. See FIGURE 2.20

**NOTICE**

*The hinge bushings have a flat side that slide through the opening in the hinge assembly. The flat side of the bushings must be facing away from the cage to align with the hinges. The hinge bushing must fully seat into the hinge for proper operation.*

**STEP 8:** Repeat STEP 7 to install the conversion door on the right-hand side of the cage. See FIGURE 2.21

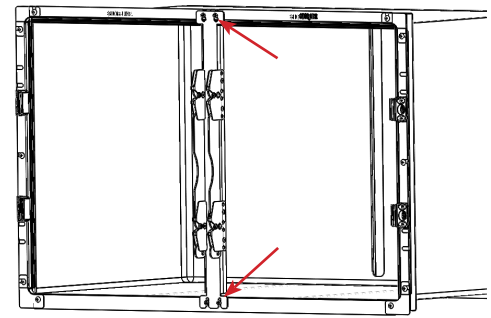


FIGURE 2.19 - Latch Bar Installation

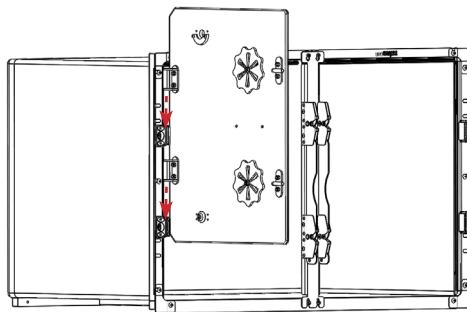


FIGURE 2.20 - Door Installation

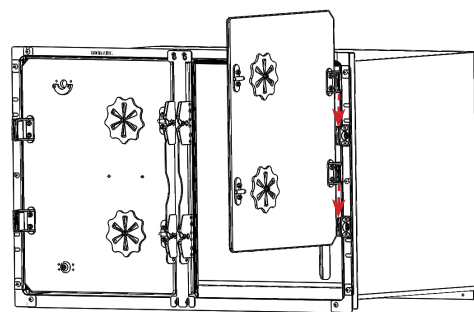


FIGURE 2.21 - Door Installation

**STEP 9:** Close the doors, check latch operation and adjust alignment to ensure the O<sub>2</sub> Doors latch correctly.

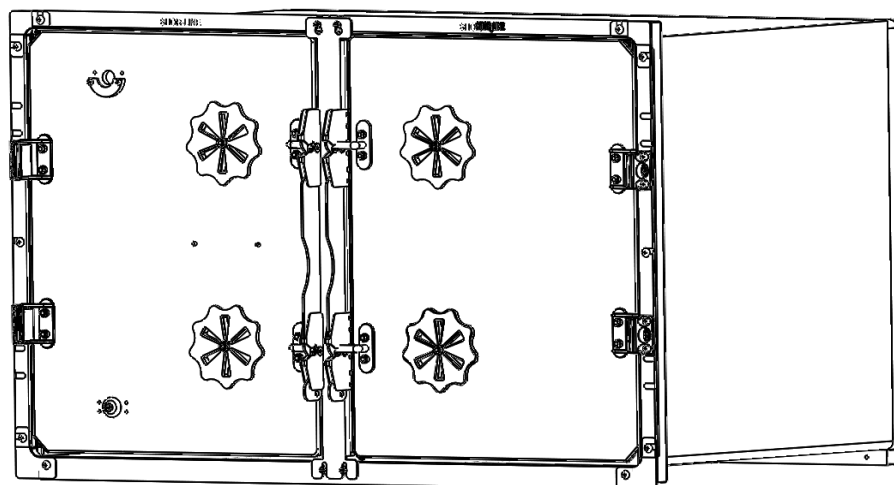


FIGURE 2.22 - 48" Wide Oxygen Therapy Plus Configuration (Options Vary)

# SECTION THREE

## Oxygen Therapy Plus Door Use And Care

### Safe Use Practices

Always use safe practices during loading and unloading patients from cages. All procedures for cage use should be created by the facility owner and followed by all users. Common sense and being aware of safety concerns should always drive procedures. Below is a list of recommendations and situational conditions that require attention, heed all warnings.

- Do NOT move a cage while occupied with animals.
- Do NOT force the cage door closed. Verify alignment issues and correct as required.
- Do NOT move cages with the doors in the open position.

### Component Instructions

Oxygen Therapy Plus Door configurations vary and may or may not include all accessories. Verify which components match the order and proceed to the components/accessories sections required to complete the installation.

#### NOTICE

**Do NOT use powered tools for any procedures listed in this manual. Doing so can scratch product surfaces and/or cause hardware to fail.**

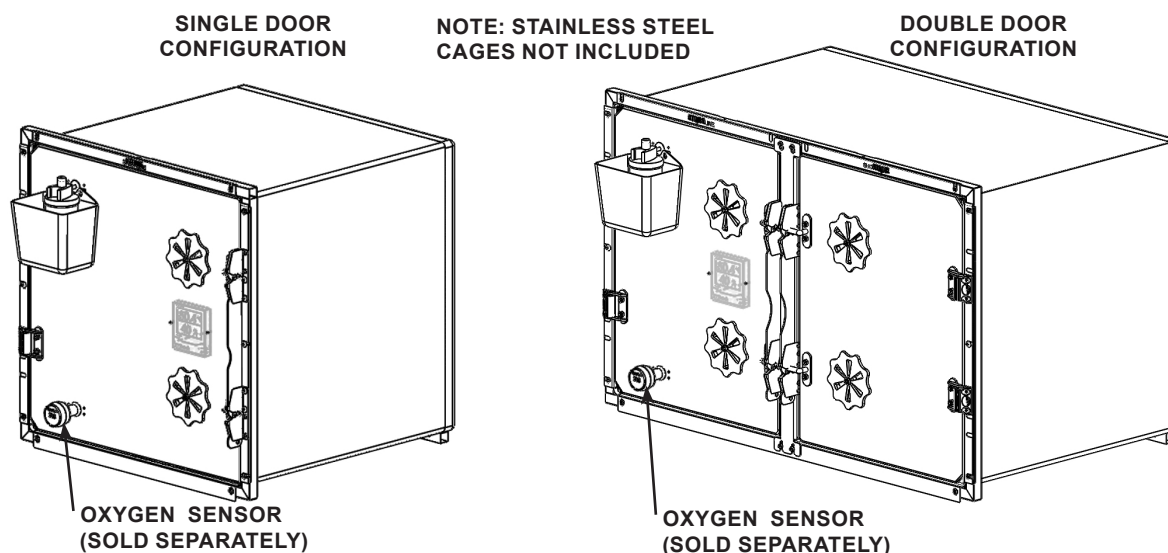


FIGURE 3.1 - Oxygen Therapy Plus Door (30x30" SD & 48x30" DD Shown)

#### ⚠ WARNING

**Enlist help and USE SAFE LIFTING PRACTICES during assembly, installation and moving equipment.**

#### ⚠ CAUTION

**Keep hands clear of possible pinch areas when assembling parts, which if not avoided, could result in MINOR to MODERATE INJURY.**

**Keep hands, fingers and patients limbs clear of possible pinch areas when adjusting the vents, which if not avoided, could result in MINOR to MODERATE INJURY.**

### Humidifier

The humidifier is designed to distribute humidified oxygen to the therapy cage. A container is provided which holds either cold (ice) or warm water to control the temperature of the humidified oxygen entering the cage.

Source oxygen is NOT provided. The source oxygen line connects to the humidifier using a 9/16"-18 male fitting supplying oxygen to the humidifier. To bypass the humidifier, attach a connector to the source oxygen line that can be secured into the adapter.

The humidifier container, though disposable can be cleaned and reused several times. Three are included with the initial shipment of the O<sub>2</sub> Door.

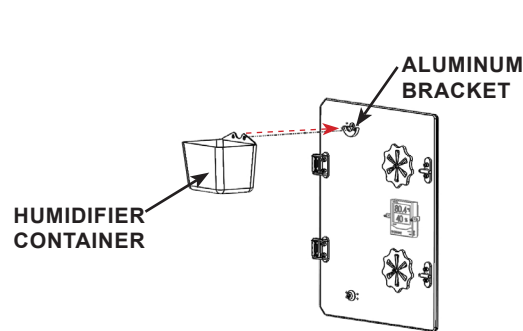


FIGURE 3.2 - Humidifier

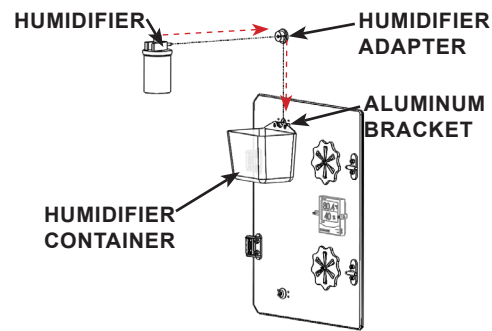


FIGURE 3.3 - Oxygen Analyzer

**STEP 1:** Install the humidifier container using the keyhole slots and exposed screw heads. See FIGURE 3.2

**STEP 2:** Insert the humidifier into the humidifier adapter and secure with the retaining screw. Slide the humidifier/adapter into the aluminum bracket. Add ice or water as required to adjust the temperature of the humidifier water. See FIGURE 3.3

## NOTICE

Refer to the manufacturer's operation, Safety warnings and maintenance procedures.

## Oxygen Analyzer

The oxygen analyzer is an optional component for the O<sub>2</sub> Door, sold separately. The oxygen analyzer can be used to spot check oxygen concentration within the O<sub>2</sub> therapy treatment cage.

Refer to the manufacturer's operation, calibration and maintenance procedures for instruction.

**STEP 1:** Install the O<sub>2</sub> Analyzer by removing the plug assembly with a Phillips head screwdriver. Clean and store the plug for replacement into the door when the analyzer is not used. See FIGURE 3.4

**STEP 2:** Insert the analyzer through the hole and secure with the cover, thread onto the analyzer, hand tighten. See FIGURE 3.5

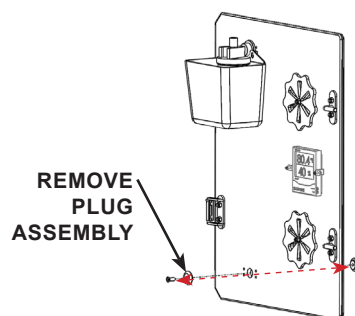


FIGURE 3.4 - O<sub>2</sub> Analyzer Plug Removal

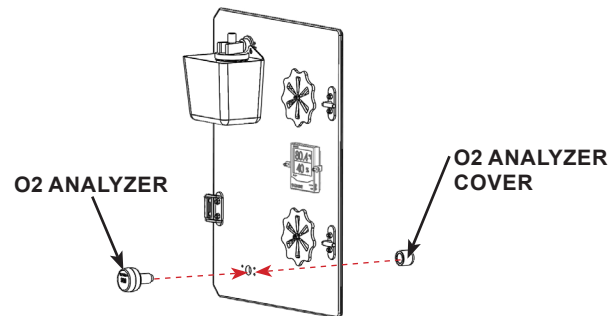


FIGURE 3.5 - O<sub>2</sub> Analyzer Installation

## NOTICE

Remove the O<sub>2</sub> Analyzer before cleaning the door. Avoid using cleaning chemicals around the exposed end of the O<sub>2</sub> Analyzer.

Refer to the manufacturer's operation, safety warnings and maintenance procedures.

## SECTION THREE

### Thermometer/Hygrometer

The O<sub>2</sub> Door is equipped with a thermometer/hygrometer which displays the temperature and humidity level within the cage. Refer to the manufacturer's operation and maintenance procedures.

The Thermometer is attached to the inside of the cage door by a bracket. Remove the meter before cleaning the cage door, replacing the battery and to access the Fahrenheit/Celsius switch located on the back.

**STEP 1:** Remove the two screws and acorn nuts to remove the bracket and meter. See FIGURE 3.6

**STEP 2:** Reinstall the meter using the two screws and acorn nuts to secure the bracket and meter, ensure the meter display orientation is correct. See FIGURE 3.7

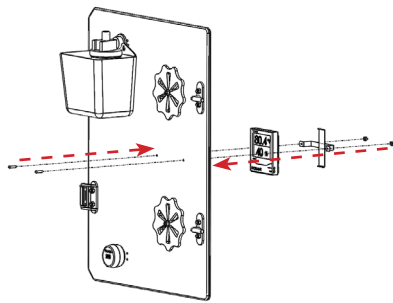


FIGURE 3.6 - Thermometer (Front View)

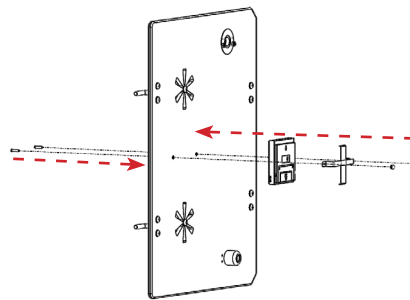


FIGURE 3.7 - Thermometer (Back View)

### NOTICE

*Always remove the meter and bracket before cleaning the cage door, avoid using chemicals around meter.*

### Adjustable Vents

Vents located on the face of the cage door can be rotated to increase or decrease the openings, adjusting the airflow into and out of the cage.

A patient occupied cage, a heating pad, humidified oxygen and ambient room conditions are all variables that can effect the temperature and humidity levels inside the cage. Adjust the vents as required to reduce condensation within the cage.



**CAUTION** *Keep hands, fingers and patients limbs clear of possible pinch areas when adjusting the vents, which if not avoided, could result in MINOR to MODERATE INJURY.*

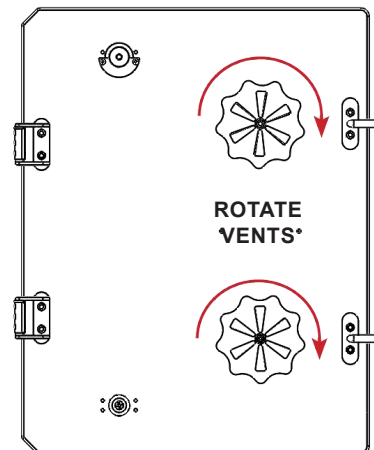


FIGURE 3.8 - Adjustable Vents

### Reversing Cage Door Swing

The standard door swing is a right-hand pull, with hinges located on the left and a latch on the right. Cage doors can be flipped to swing with a left-hand pull by relocating the hinges, latch assembly and rotating the door. (Single door cages only)

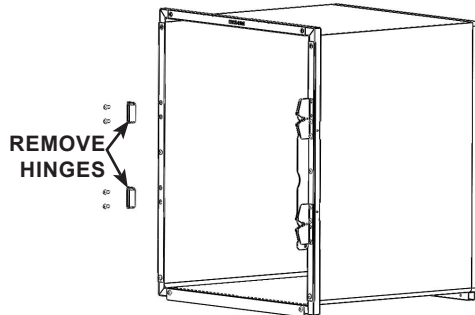
### Cage Hardware

**STEP 1:** Remove the cage door by following the Type III hinge cage door removal procedure.

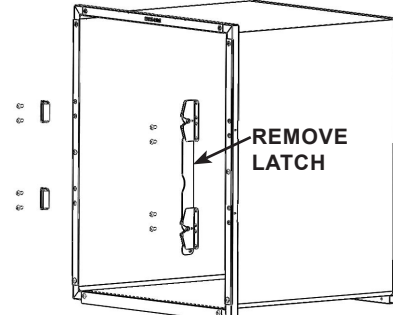


**STEP 2:** Remove the hinge assemblies from the left side of the cage frame by removing the screws. See FIGURE 3.9

**STEP 3:** Remove the latch assembly from the right side of the cage frame by removing the screws. See FIGURE 3.10



**FIGURE 3.9 - Hinge Assembly Removal**

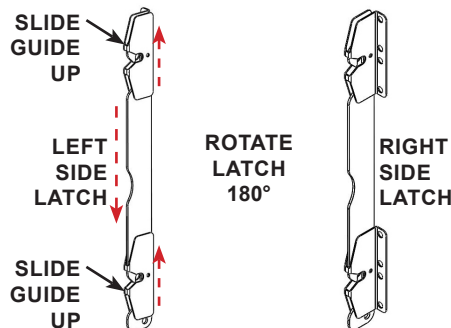


**FIGURE 3.10 - Latch Assembly Removal**

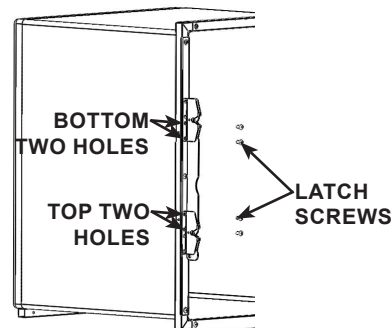
**STEP 4:** Flip, rotate the latch assembly so the latch bar is on the inside of the cage frame and that both latch guides are in the top position. See FIGURE 3.11

The latch is designed for left or right operation. Hold the latch guides while sliding the latch bar down to the lowest position on both guides.

**STEP 5:** Install the latch assembly to the cage frame, tighten screws to secure the latch to the frame. See FIGURE 3.12



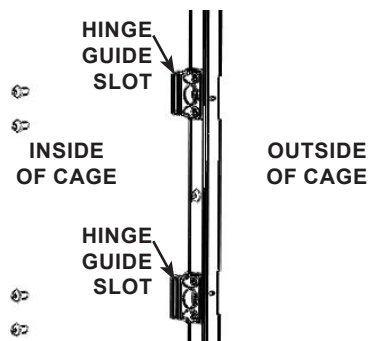
**FIGURE 3.11 - Latch Assembly Rotate**



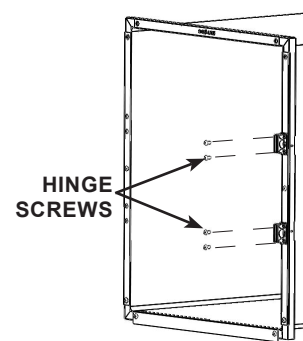
**FIGURE 3.12 - Latch Assembly Installation**

**STEP 6:** Flip, rotate the hinge assembly to the right side of the cage frame so that the hinge bushing guide is located on the inside of the cage frame. See FIGURE 3.13

**STEP 7:** Install the hinge assemblies to the cage frame, tighten screws to secure the hinges to the frame. See FIGURE 3.14



**FIGURE 3.13 - Hinge Assembly Rotate**



**FIGURE 3.14- Hinge Assembly Installation**

## SECTION THREE

### Door Rotation/Component Relocation

The O<sub>2</sub> Door can be flipped or rotated so that the door will swing in the opposite direction. The components/accessories have to be removed, relocated and reattached.

Depending upon the configuration of the O<sub>2</sub> Door, components and procedures may vary.

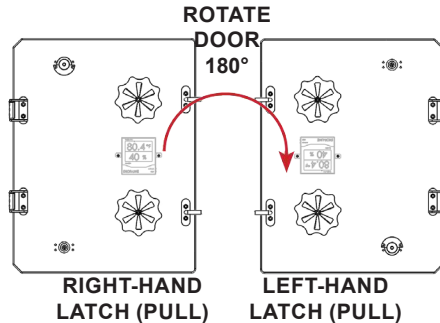


FIGURE 3.15 - Rotate Door

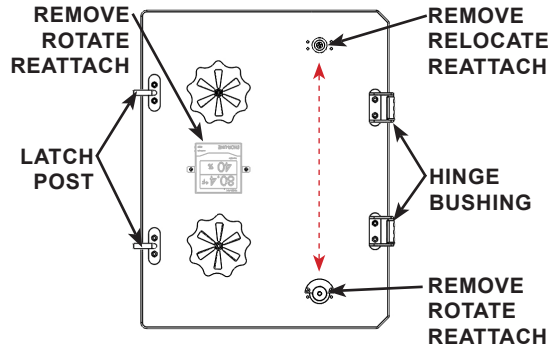


FIGURE 3.16 - Rotated Door

**STEP 1:** Rotate the door 180° about the face so that the hinge bushings are located on the right hand side of the door. See FIGURE 3.15 & 3.16

Remove, rotate and reattach the Thermometer/Hygrometer to reorient the meter to read correctly. Ensure the meter is reinstalled on the backside (cage-side) of the door.

**NOTICE** Do NOT attempt to remove the meter by sliding it out of the bracket while still attached to the door, may scratch the door surface.

**STEP 2:** Remove the two screws, washers and acorn nuts to detach the bracket and meter. Reinstall the meter to read upright. See FIGURE 3.17

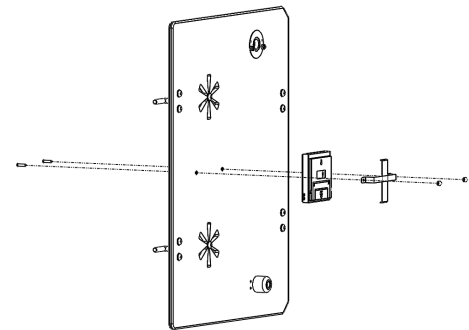


FIGURE 3.17 - Thermometer/Hygrometer

The O<sub>2</sub> door Humidifier holder and O<sub>2</sub> analyzer/door plug swap positions.

**STEP 3:** Remove the O<sub>2</sub> analyzer/door plug:

- A:** O<sub>2</sub> analyzer - Remove the O<sub>2</sub> Analyzer by turning the cover (backside) counterclockwise, slide the O<sub>2</sub> Analyzer out of the hole. Set aside for the moment. See FIGURE 3.18
- B:** Door Plug - Remove the door plug assembly with a Phillips head screwdriver, turn the screw counterclockwise to loosen, remove. Set aside for the moment. See FIGURE 3.19

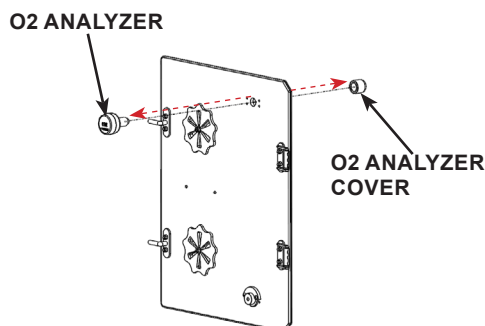


FIGURE 3.18 - O<sub>2</sub> Analyzer Removal

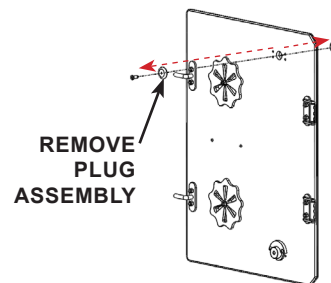
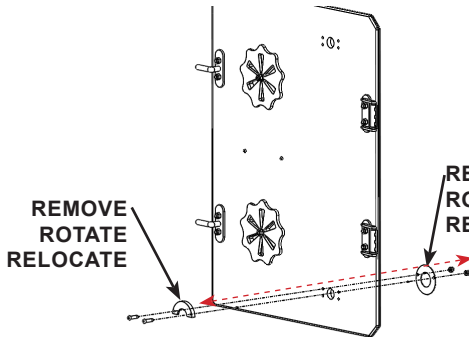


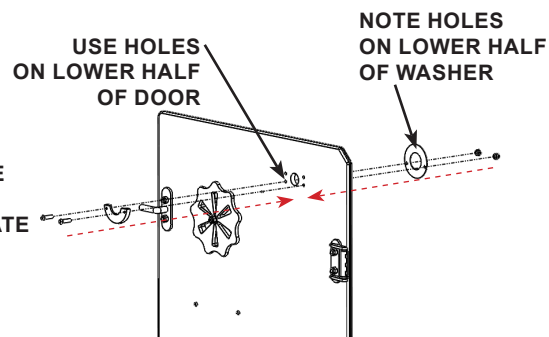
FIGURE 3.19 - Door Plug Removal

**STEP 4:** Using a Phillips head screwdriver and a wrench, remove the humidifier holder. See FIGURE 3.20

**STEP 5:** Rotate the humidifier holder orientating the bracket to align with the top hole in the door (lower two screw holes). Install the humidifier holder by reattaching the large washer on the backside of the door, secure with the screws and nuts. See FIGURE 3.21

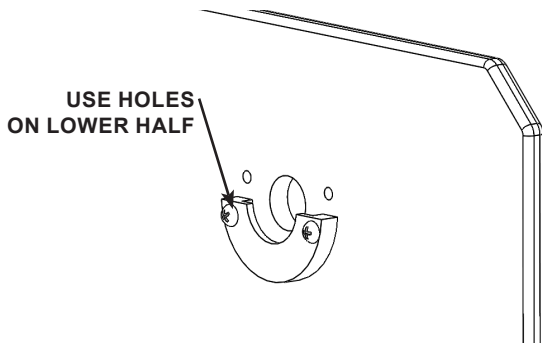


**FIGURE 3.20 - Holder Removal**

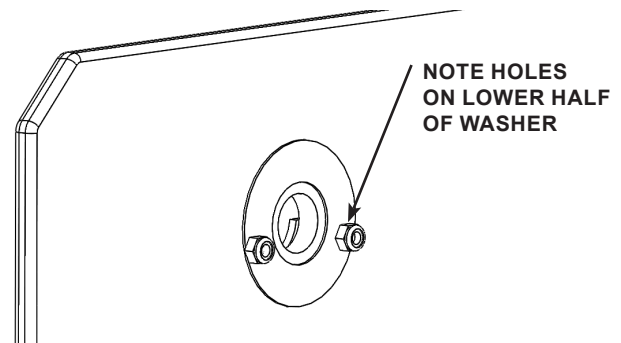


**FIGURE 3.21 - Holder Installation**

Ensure the humidifier holder is secured to the bottom two holes. The top two screw holes are not used for this procedure. See FIGURE 3.22 & 3.23



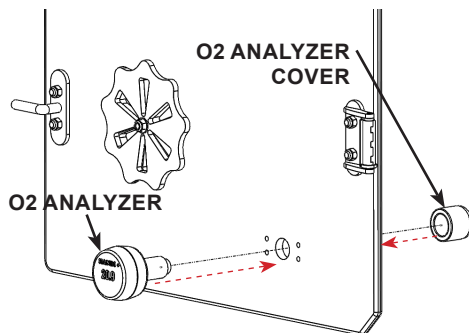
**FIGURE 3.22 - Holder (Front Side)**



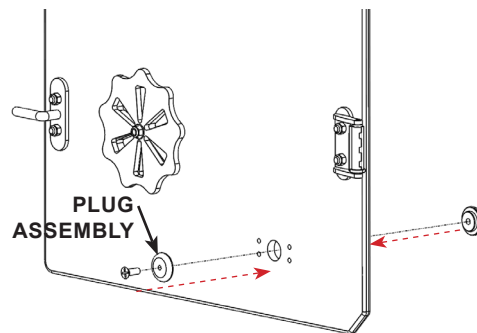
**FIGURE 3.23 - Washer (Back Side)**

**STEP 6:** Install the O<sub>2</sub> analyzer/door plug:

- A:** O<sub>2</sub> analyzer - Insert the O<sub>2</sub> Analyzer into the bottom hole of the door, turning the cover (backside) clockwise to secure to the door. See FIGURE 3.24
- B:** Door Plug - Install the door plug assembly with a Phillips head screwdriver, turn the screw clockwise to secure the plug to the door. See FIGURE 3.25



**FIGURE 3.24 - O<sub>2</sub> Analyzer Installation**



**FIGURE 3.25 - Door Plug Installation**

## SECTION THREE

### Hinge Bushing Procedures

The Type III hinge is designed for left or right hand latches. To reverse the door swing to a cage, the hinge bushings must be removed from the door and rotated. The hinge bushing has a larger diameter top than the bottom.

The bushings (door) must be installed into the hinge guide slot from the top. There is a flat side on the bushing that slides through the hinge guide. Do NOT force the hinge bushing into the guide slot.

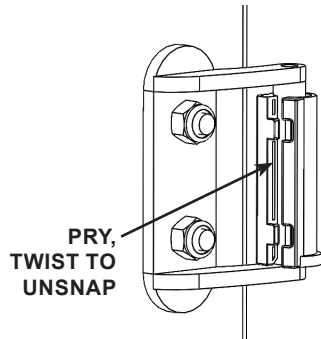


FIGURE 3.17 - Hinge Bushing

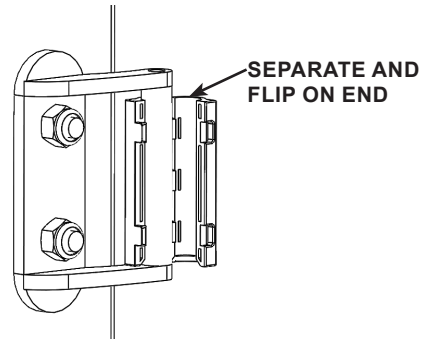


FIGURE 3.18 - Hinge Bushing

**STEP 1:** Use a flathead screwdriver to pry, separate the two hinge bushing halves. See FIGURE 3.17 & 3.18

**STEP 2:** Reinstall the hinge bushings with the larger end at the top. The top lip prevents the hinge bushing from sliding through the hinge assembly. Snap the two pieces together with the flat side of the bushings facing the cage door. See FIGURE 3.19

**STEP 3:** Reinstall the cage door.

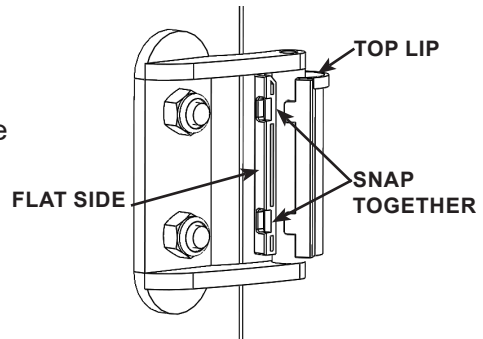


FIGURE 3.19 - Hinge Bushing Installation

### NOTICE

*The hinge bushings must completely be seated into the hinge assemblies for proper operation.*

## General Maintenance & Care

### Maintenance Recommendations

**NOTICE** *Routine maintenance will extend the quality and life of Shor-Line products.*

It is the owners responsibility to set-up scheduled maintenance programs, depending on use of the equipment. Scheduled preventive maintenance should include, but not limited to daily or weekly inspections and maintenance of products to prolong its longevity and to help maintain proper product functions.

- Follow manufacturers cleaning and maintenance recommendations outlined in product literature provided for components not included in these recommendations. Configurations/component parts may vary.
- Check alignment of operable panels, doors and components to ensure operation is free of obstructions. Adjust as required.
- Check any battery compartments to ensure the batteries are not failing, corroding the contacts or damaging the equipment. A pencil eraser can be used to clean electrical contacts in battery compartments.
- Check any wiring for kinks or exposed inner wiring. If damage exist, stop equipment use and contact Shor-Line Technical Services for direction.
- Check any hydraulic lift components for leaking fluid. If fluid is present, stop equipment use and contact Shor-Line Technical Services for direction. Do NOT attempt to repair hydraulic leaks.

### Care Recommendations

**NOTICE** *Routine product care will extend the quality and life of Shor-Line products and aids in protecting animals from transmittable diseases and infections.*

It is the owners responsibility to set-up scheduled cleaning programs, depending on use of the equipment. Scheduled preventive cleaning should include, but not limited to daily or weekly inspections and cleaning of products to prolong its longevity and to help maintain finishes.

### Safe Cleaning Practices

- Use the mildest cleaning procedure that will complete the job effectively. Ordinary waste deposits and fluids can usually be removed with soap and water, using a soft cloth or sponge. Rinse thoroughly with clear water and dry completely with a soft cloth to discourage hard-water spotting.
- Minor scale build up and some hard water spotting can be removed by washing with a vinegar diluted mixture followed by a clear water rinse and thorough drying.
- Bleach, deodorizing agents, disinfectants, and sanitizers can corrode stainless steel, thoroughly rinse all surfaces treated with these chemicals with a clear water rinse and dry with a soft cloth.
- If scrubbing is required, use only polymer or nylon fiber products made for use with polymer or nylon materials.
- Always rinse with clear water and dry of all surfaces treated with cleaning, sterilization solutions.

### Unsafe Cleaning Practices (NOT Recommended)

- Do NOT use a dry cloth or wipe clear polymer surfaces which can scratch if dust/dirt is wiped with the hand or dry cloth.
- Polymer materials can discolor if exposed to sunlight, ultraviolet rays. Avoid direct sun exposure.
- Do NOT use ammonia or bleaches to clean polymer surfaces.
- Do NOT allow fluids to accumulate, puddle without removing and completely drying the surfaces and components. Standing water/fluids are a hazard and can cause damage to component materials.
- Do NOT use scouring powders that will scratch polymer finishes.

**NOTICE** *Steel wool or steel brushes should never be used to clean stainless steel or polymer surfaces, avoid abrasive cleaning techniques/supplies.*



# SECTION FOUR

## Terms And Conditions

Shor-Line's terms and conditions can be found at [shor-line.com](http://shor-line.com)

### Damaged Freight Procedures

**Freight Claim** - Contact the technical services department toll-free at 1.800.444.1579

To file a freight claim:

Inspect ALL packages upon arrival. If containers show evidence of damage when delivered, the packages should be opened and inspected before the carrier leaves. The shipment should be inventoried and inspected jointly by the customer and the carrier. The driver will then make proper notation on the delivery receipt.

Customer must inspect all materials for shortages, damages, conformity with the order, and defects before signing any documentation requested by the carrier. Customer must immediately complete such inspection and shall not accept delivery of goods that are damaged or not in accordance with the bill of lading or packing slip without proper notification to the carrier and Shor-Line. If products are damaged, defective, shorted or appear not to conform to the order, Customer shall discontinue their use and immediately notify the carrier and Shor-Line of such condition and afford a reasonable opportunity to inspect the same.

Customer shall make, or provide Shor-Line in writing with all information necessary to make a claim against such carrier for any shortage, damage, or discrepancy of the shipment within fifteen (15) days after receipt of the products. Claims or written information thereon not so presented within fifteen (15) days after receipt of the products will not be allowed. No returned products will be accepted, credited or replaced, unless arrangements for their return have been made in compliance with Shor-Line's Return Policy.

If containers do not show evidence of damage, there may be "concealed damage". Customer must report any concealed damage within 15 days after receipt of the shipment. Such report is to be made directly to Shor-Line's Traffic Department who will file a claim with the carrier. All packaging and contents must be held for this inspection.

**STEP 1:** Customer must check goods, contents against packing slip, weight against bill of lading, containers, etc.

**STEP 2:** Customer fills out "Inspection Report of Loss or Damage Discovered After Delivery".

**STEP 3:** Customer is to sign the report form. A copy is left with the customer and should be forwarded to Shor-Line's traffic department to file a claim.

**STEP 4:** Call Shor-Line's Traffic Department to file a claim (1.800.444.1579). Shor-Line will arrange pick-up, return shipment, and replacement of the product.

**Return Policy & Repairs** - All products being returned for any reason or delivered for repair service (whether or not pursuant to the Limited Warranty) must receive advance authorization from Shor-Line. Customer must contact Shor-Line's Technical Service Department at 1.800.444.1579 to receive a Return Authorization Number. All products returned, except for warranty service or pursuant to the Product Satisfaction policy, are subject to a minimum 15% restocking charge. Customer will be responsible for all freight charges on returns.

**Return Product Authorization** - To assure efficient handling on damaged or defective equipment, or repairs, please contact our Technical Service Department for Return Product Authorization (1.800.444.1579). Failure to obtain Return Product Authorization will only delay processing and may result in the denial of any repair, replacement or credit.

**Repairs** - It is mandatory to contact Technical Service Department at 1.800.444.1579 prior to sending product for repair.

## Limited Warranty

In the event the Customer is not fully satisfied with the quality or workmanship of a product, SHOR-LINE in its sole discretion may arrange either to credit Customer's account (excluding shipping and handling costs) or replace the product. However, Customer must notify Shor-Line in writing of its dissatisfaction within fifteen (15) days of receipt of the product from SHOR-LINE. Customer must also return the rejected product to SHOR-LINE (freight paid) within thirty (30) days of its receipt in compliance with SHOR-LINE's Return Policy (See Section 4). SHOR-LINE's obligation is limited to providing the applicable credit or product replacement, which will be processed only after receipt of the returned product. In addition, this Product Satisfaction Policy does not apply to specially designed, discontinued, used, factory second or repaired products.

SHOR-LINE warrants to the initial purchaser only of products manufactured by it that such products are free from defects in materials or labor for varying periods depending on the particular product and subject to the limitations and conditions set forth herein. SHOR-LINE's stainless steel products are warranted to be free from such defects for their normal useful life. SHOR-LINE's mechanical and electrical products, parts, devices and components (including such parts, devices and components of stainless steel products), and other non-stainless steel products are warranted to be free from such defects for one year. SHOR-LINE disclaims any express or implied warranty for products not manufactured by SHOR-LINE and the only warranty available therefor to customer is that offered by the products' manufacturers.

The warranty period shall run from the date of delivery to customer. If within the applicable warranty period a product proves to be defective as described herein, SHOR-LINE will repair or replace the product, at SHOR-LINE's sole discretion, conditional upon customer's written notice of the defect within fifteen (15) days after its discovery and compliance with applicable return procedures. Upon receipt of customer's notice including substantiation of customer's status as the initial purchaser and details of the defect, SHOR-LINE shall advise customer whether it plans to repair or replace the product. SHOR-LINE's obligation is solely limited to repair or replacement of a defective product and in no event shall SHOR-LINE be liable for transportation from or to SHOR-LINE's offices or any other expense which may arise in connection with this limited warranty or the aforementioned product satisfaction policy.

SHOR-LINE makes no other warranty or guarantee of any kind whatsoever, whether expressed or implied, statutory or otherwise including, but not limited to implied warranties of fitness and or merchantability. The above limited warranty constitutes SHOR-LINE's only warranty and no person or entity is authorized, on behalf of SHOR-LINE, to modify or expand upon the provisions expressed in the limited warranty statement. SHOR-LINE's liability under this limited warranty shall be limited as provided for above and the foregoing shall be the customers sole remedy and recourse under this contract. There are no warranties, which extend beyond the description on the face hereof and goods are sold as-is. SHOR-LINE's limited warranty is only available to the initial purchaser of its products.

Customer agrees to comply with all instructions and specifications furnished by SHOR-LINE relating to installation, care and application of products sold. Customer agrees that it will not modify, misapply, or misuse such products in any manner including one that would deviate from the products' intended use. Any repairs, alterations or service provided by parties other than SHOR-LINE, or its authorized representative may void this limited warranty. This limited warranty shall not apply to normal wear and tear, damage caused by accident, negligence, improper operation, or the use of the corrosive material (including without limitation bleach-sodium hypochlorite) on stainless steel surfaces. SHOR-LINE's limited warranty made in connection with this sale shall not be effective and shall be void unless such goods are applied and used in accordance with SHOR-LINE's instructions.

### Limitation Of Liability

Under no circumstances shall SHOR-LINE be liable to buyer or any other person for any special liquidated, incidental or consequential damages, including, without limitation, damages based upon lost goodwill, lost sales or profits, work stoppage, delay, product failure, impairment of goods or otherwise and whether arising out of breach of warranty, breach of contract, negligence or otherwise, and in any case, SHOR-LINE's liability for any and all losses and damages sustained by buyer and others, rising out of or by reason of this contract, shall not exceed the original purchase price of the products upon which liability is founded. In no event shall any action be commenced against SHOR-LINE more than one year after the cause of action with respect to which the claim is made has occurred. SHOR-LINE shall not be responsible for expenses for repairs not made by SHOR-LINE without the prior written consent of SHOR-LINE. Product specifications are subject to change without any notice or obligation on the part of SHOR-LINE.

January 2019

# SHOR-LINE<sup>®</sup>

## SHOR-LINE

Schroer Manufacturing Company  
511 Osage Ave.

Kansas City, Kansas 66105, USA

PHONE: 800.444.1579

LOCAL: 913.281.1500

FAX: 913.281.5339

EMAIL: [guides@shor-line.com](mailto:guides@shor-line.com)

WEB ADDRESS: SHOR-LINE.com

## SHOR-LINE LIMITED

Vale Business Park Llandow,  
Vale of Glamorgan CF71 7PF  
United Kingdom

PHONE: +44 1446 77 20 41

FAX: +44 1446 77 36 68

EMAIL: [quality@shor-line.co.uk](mailto:quality@shor-line.co.uk)

WEB ADDRESS: SHOR-LINE.co.uk