

# LADDER SAFETY GATE

## Installation Instructions/Operation and Maintenance Manual



**Models:**  
All Models

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Contact Information			
<b>Mail</b> PS Safety Access 1150 South 48th Street Grand Forks, ND 58201	<b>Local Phone</b> 701.746.4519  <b>Toll Free Phone</b> 877.446.1519	<b>Website</b> pssafetyaccess.com  <b>Email</b> 4psinfo@psdoors.com	<b>Hours of Operation</b> 8 A.M. to 5 P.M. CT Monday – Friday

**IMPORTANT!** Read entire Instruction and Operations Manual to become familiar with the product.

**NOTICE** This product is a fall protection product. The effectiveness of the product is directly related to the proper installation and operation of this product. Failure to properly maintain this product **will** affect performance.

**Publication Notice**

This manual has been compiled and published covering the latest product descriptions and specifications.

The contents of this manual and the specifications of this product are subject to change without notice.

PS Safety Access reserves the right to make changes without notice in the specifications and materials contained herein and shall not be responsible for any damages (including consequential) caused by reliance on the materials presented, including but not limited to typographical and other errors relating to the publication.

PS Safety Access and/or its respective suppliers may make improvements and/or changes in the product(s)/ service(s) offered and/or the program(s) at any time without notice.

Retain this manual for future reference.  
If you would like to download a copy of this manual, please go to [psdoors.com](http://psdoors.com) or [pssafetyaccess.com](http://pssafetyaccess.com)



## Safety Precautions

**The following icons are used throughout this Manual.**

**▲ DANGER** Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

**▲ WARNING** Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

**▲ CAUTION** Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderated injury.

**NOTICE** Indicates manufacturer's statement of additional information.

**IMPORTANT!** Indicates a required action.

**CRITICAL** Indicates a vital component to product performance.

## Ladder Safety Gate Product Information

**NOTICE** Unauthorized modification of or to the Product voids this Limited Warranty. Authorized modifications, received in writing from PS DOORS, as long as the modification is accomplished in strict accordance with PS DOORS' instructions, does not void warranty. To request product modifications contact PS DOORS, 1150 S. 48th Street, Grand Forks, ND 58201, phone 877-446-1519, email: 4psinfo@psdoors.com

### I. General Information

- A. This manual contains information regarding installation, operation, and maintenance of the PS DOORS Ladder Safety Gate.
- B. The Ladder Safety Gate is designed meet OSHA Railing Standard 1910.29(b).
- C. PS DOORS recommends that the owner implement a regular maintenance program to inspect the Ladder Safety Gate as necessary.
- D. Operation in a manner other than intended could result in damage or less than acceptable performance at time of need, for which the manufacturer will not be held responsible.
- E. There are variations of the Ladder Safety Gate hinge plate. If you have a LSG that is between 15" and 36", it will have 2 hinges attached to the hinge plate. If your gate is between 40" and 48", it will have 3 hinges attached to the hinge plate. Although these gates are designed differently, all PS DOORS Ladder Safety Gates should follow the installation instructions and operators manual.

### II. Storage Prior to Installation of Product

- A. Store materials in a dry, ventilated location. If outdoor storage is required, block materials and tarp in a tent-like arrangement, elevated above the product with open sides to allow airflow.

### III. Installation Site Preparation

**NOTICE** Before starting site preparation and installation of the Ladder Safety Gate, read the entire Operation and Maintenance Manual and review all installation instructions thoroughly.

- A. Clear work area of any debris.
- B. Ensure you have the necessary tools available:

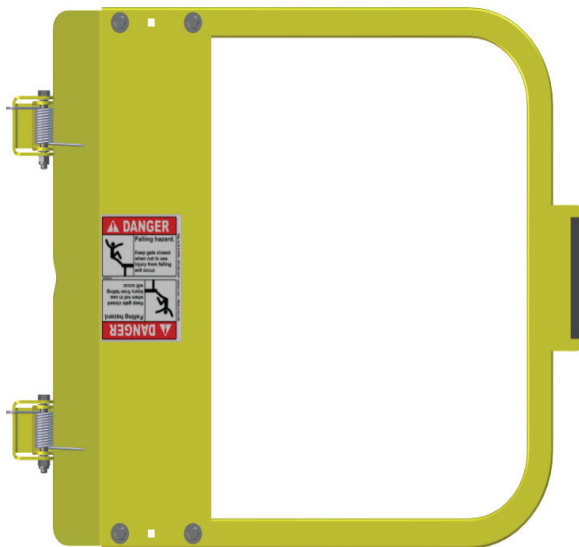
### IV. Pre-Installation Safety Precautions

- A. Ensure opening is clear of all obstructions through the entire proposed travel of the Ladder Safety Gate during operation.
- B. Comply with all OSHA and ANSI Safety Regulations and/or company safety policies when installing.
- C. Personnel: Determine the appropriate number of personnel required to perform installation and have them readily available at the project site. (1-2 people recommended)

**▲ DANGER** Ensure area below installation is blocked off from personnel during installation, and mounting surface is capable of supporting all loading. Structural analysis of mounting surface is the responsibility of the owner.

## Ladder Safety Gate Product Information

**NOTE:** Inventory carton to ensure all parts are present for assembly/installation. Refer to part list below.



(1) Ladder Safety Gate  
(pre-assembled)



(1) Hardware bag

### Ladder Safety Gate Part List (As shipped)

ITEM NUMBER	DESCRIPTION	QUANTITY
1~	LSG;HINGE PLATE ASSEMBLY	1
2~	LSG;HOOP	1
3~	BOLT;CARRIAGE5/16"-18X2"	4
4~	WASHER;FLAT 5/16"	4 [6*]
5~	NUT;NYLOCK 5/16"	4 [6*]
8	LSG;HARDWARE BAG	1
9	LSG;INSTALLATION/O & M MANUAL	1
10	LSG;SUPPORT BLOCK KIT**	1

\* Quantity for 3-hinge variants.

\*\* For models LSG-30 to LSG-48 only.

~Item Numbers 1-5 come pre-assembled.

### Recommended Tools:

1. One (1) 1/2" Deep-well Socket and Ratchet
2. One (1) Wrench Set
3. One (1) Tape Measure
4. One (1) Torque Wrench
5. One (1) Impact Drill w/ 3/8" Nut Driver

### V. Operation

A. When ascending a ladder/entering the elevated platform:

1. When the gate opening is reached, obtain a firm grip on the railing or ladder.
2. Step through gate.
3. DO NOT USE THE LADDER SAFETY GATE AS A GRAB SURFACE WHILE ASCENDING THE LADDER.

B. When descending a ladder/exiting the elevated platform.

1. Open the Ladder Safety Gate and obtain firm grip on railing.
2. Maneuver yourself into the proper ladder descending position. DO NOT USE THE LADDER SAFETY GATE AS A GRAB SURFACE WHILE DESCENDING THE LADDER.
3. Always maintain a firm grip on the railing or ladder.

## Standard 2" O.D. Railing Installation

### VI. Standard 2" O.D. Railing Installation

(Railing up to 2" O.D. round or 1 1/2" x 1 1/2" square.)

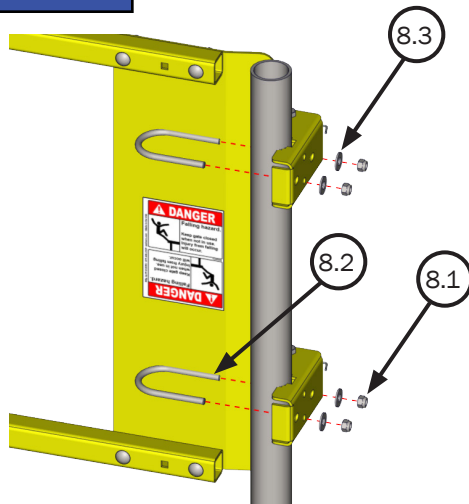
#### STEP 1.

- Loosely attach the Ladder Safety Gate to the railing with the 5/16" bolts.
- Install the 5/16" U-Bolt.

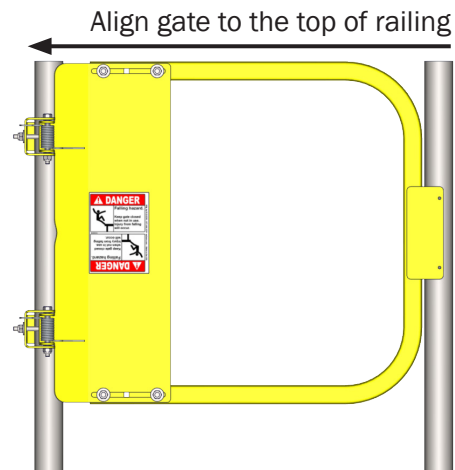
*\*Do not tighten, additional adjustment may be required.*

#### STEP 2. Adjust top of Safety Gate to align with top of railing.

**Step 1  
Illustration**



**Step 2  
Illustration**

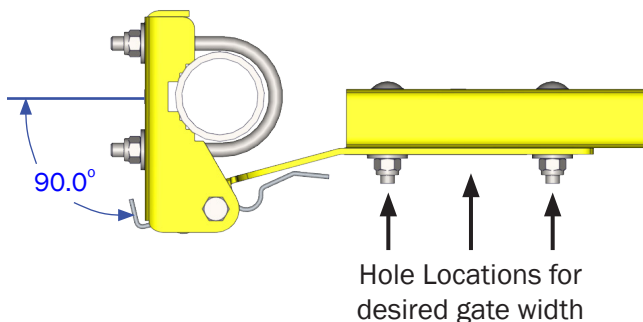


#### STEP 3. Align railing/mounting bracket to be perpendicular (90°) to Ladder Safety Gate opening, tighten U-Bolts.

#### STEP 4. Adjust hoop/gate arm to proper opening width by selecting any combination of two of the three carriage bolt holes at connection point of hinge plate and hoop/gate arms. Ensure stop plate overlaps and contacts adjacent vertical column of railing system allowing for 1/4" maximum clearance.

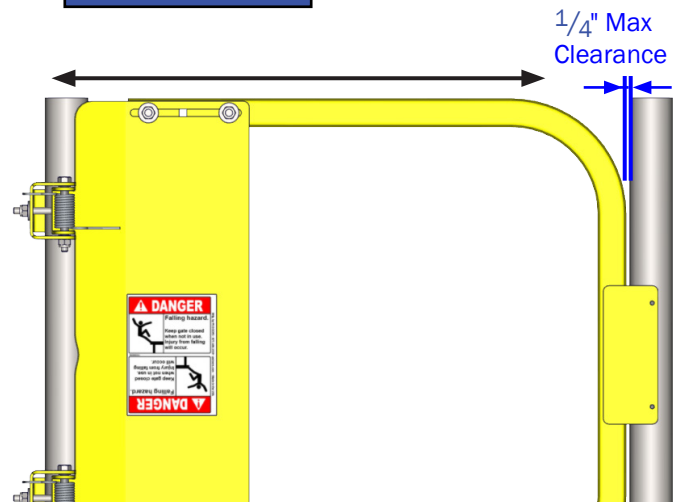
**Step 3  
Illustration**

**TOP VIEW**



**Step 4  
Illustration**

**FRONT VIEW**



#### **CRITICAL** VERIFY INSTALLATION

- Ensure all bolts/nuts are tight.
- Operate gate to ensure free movement.

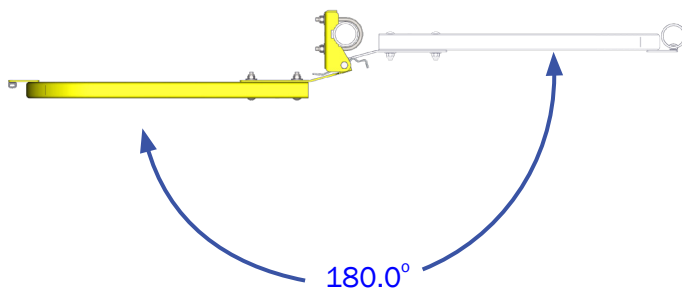
## Standard 2" O.D. Railing Installation

**STEP 5.** Operate the gates through full swing range to check for proper alignment.

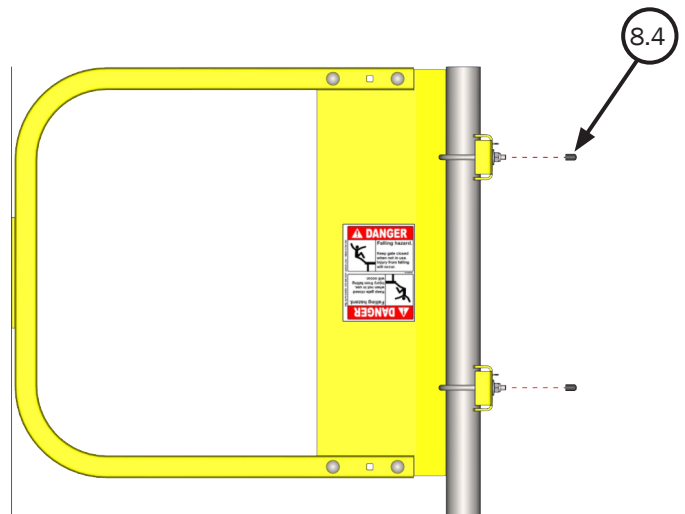
**STEP 6.** Tighten  $\frac{5}{16}$ " U-bolts in final position. Install plastic protective thread caps (optional).

**▲ WARNING** Tighten each U-bolt to 20ft/lbs of torque and field verify for adequate attachment.

**Step 5  
Illustration**

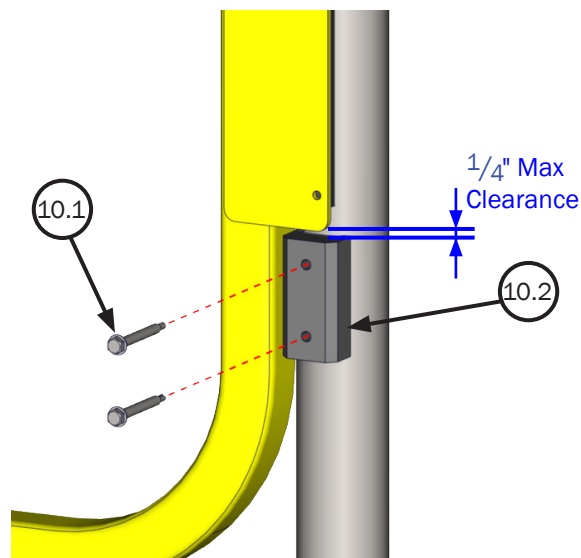


**Step 6  
Illustration**



**STEP 7.** For Models LSG-30 through LSG-48 ONLY, utilize provided self-drillers and fasten support block to railing.

**Step 7  
Illustration**



## Installation on Angle Iron Railing

### VII. Installation on Angle Iron Railing (Supplied By Others, Not PS Doors)

**NOTICE** If mounting your Ladder Safety Gate to angle iron railing: Gate bolts directly to existing railing (see below installation instructions). If you do not wish to drill into your existing railing system, call PS Safety Access at 877.446.1519 to order a “no drill” adapter bracket.

**STEP 1.** Align the Ladder Safety Gate Railing Bracket flush to the inside of the angle iron.

**STEP 2.** Adjust top of Ladder Safety Gate to align with top of railing.

**Step 1  
Illustration**

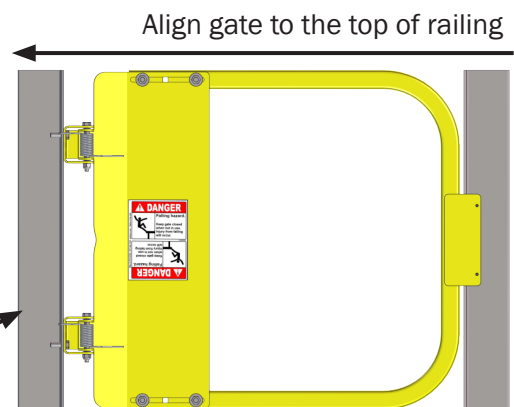
**TOP VIEW**

**Step 2  
Illustration**

**FRONT VIEW**



Angle Iron  
Railing

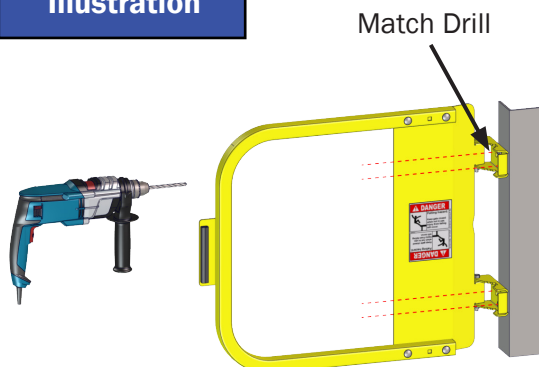


**STEP 3.** Match drill  $\frac{3}{8}$ " holes into the railing. (One per Railing Bracket.) If no railing, adjust top of hoop/gate arm to 42" above walking surface.

**STEP 4.** Insert appropriate mounting bolts through Railing Brackets into angle iron railing (Mounting bolts provided by others, NOT PS Doors). Loosely attach the Ladder Safety Gate to the angle iron.

**Step 3  
Illustration**

**Step 4  
Illustration**



**NOTICE** Rest of gate not shown.

**NOTICE** Mounting bolts not included.

Recommended Hardware: Minimum  $\frac{5}{16}$ " grade 5 Hex head bolts of appropriate length with washers and self-locking nuts.

**STEP 5.** Refer to STEPS 4-7 on Page 4 and 5 for remainder of installation.

**NOTICE** If no stop surface is available for the stop plate to rest against, install stop surface (Provided By Others, NOT PS Doors), using appropriate anchoring hardware and material, to align with the stop plate.

## Installation on Flat Bar Railing or Wall Surface

### VIII. Installation on Flat Bar Railing or Flat Wall Surface (Supplied By Others, Not PS Doors)

**NOTICE** If mounting your Ladder Safety Gate to flat bar railing: Gate bolts directly to existing railing (see below installation instructions). If you do not wish to drill into your existing railing system, call PS Safety Access at 877.446.1519 to order a “no drill” adapter bracket.

**STEP 1.** Align the Ladder Safety Gate Railing Bracket flush to the flat bar/flat wall.

**STEP 2.** Adjust top of Ladder Safety Gate to align with top of railing.

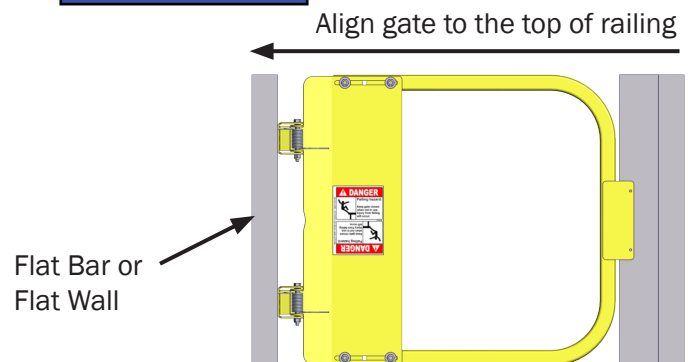
Step 1  
Illustration

TOP VIEW



Step 2  
Illustration

FRONT VIEW

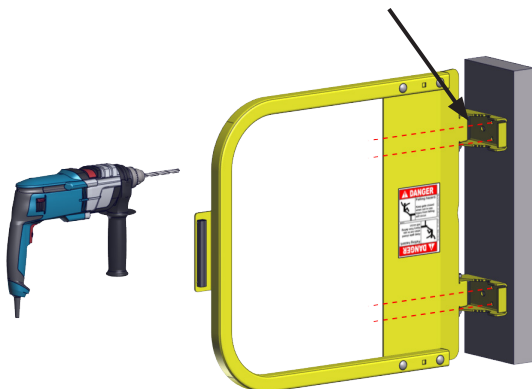


**STEP 3.** Match drill  $\frac{3}{8}$ " holes into the railing. (One per Railing Bracket.) If no railing, adjust top of hoop/gate arm to 42" above walking surface.

**STEP 4.** Insert appropriate mounting bolts through Railing Brackets into flat bar railing (Mounting bolts provided by others, NOT PS Doors). Loosely attach the Ladder Safety Gate to the flat bar/flat wall.

Step 3  
Illustration

Match Drill



Step 4  
Illustration



**NOTICE** Mounting bolts not included.

Recommended Hardware for mounting to Flat Bar Railing:  
Minimum  $\frac{5}{16}$ " grade 5 Hex head bolts of appropriate length with washers and self-locking nuts.

Recommended Hardware for mounting to Flat Wall Surface:  
Minimum use mechanical or chemical fastener, sized appropriate, for mounting material and loading requirements.

**NOTICE** Rest of gate not shown.

**STEP 5.** Refer to STEPS 4-7 on Page 4 and 5 for remainder of installation.

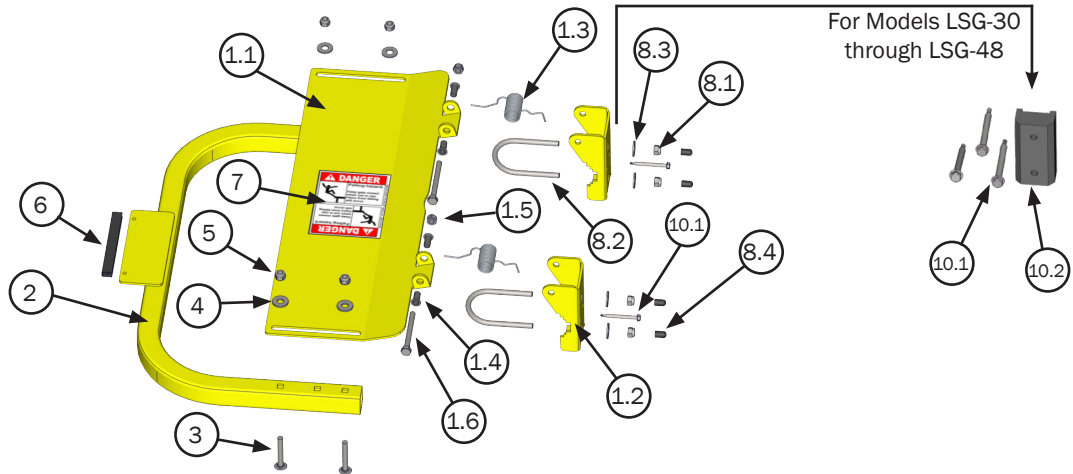
**NOTICE** If no stop surface is available for the stop plate to rest against, install stop surface (Provided By Others, NOT PS Doors), using appropriate anchoring hardware and material, to align with the stop plate.

## Replacement Parts List

### IX. Replacement Parts List

**NOTE 1:** Ladder Safety Gate is shipped fully assembled. Diagram is for part identification only.

**NOTE 2:** This diagram is for PCY/GAL/SS Models. Hardware variants for SS-SW Model and ALU Model on Page 9.

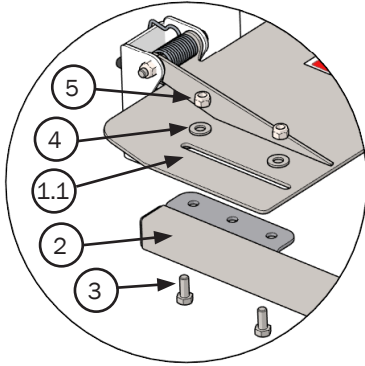


ITEM #	DESCRIPTION	QTY	Gate Finish Type				
			SS	PCY	GAL	SS-SW	ALU
1	LSG;Hinge Plate Assembly (2-Hinge Plate)	1	508233	502079	502078	502080	509816
1	LSG; Hinge Plate Assembly (3-Hinge Plate)	1	508234	502082	502081	502083	
1.1	LSG; Hinge Plate (2-Hinge Plate)	1	508230	500956	500954	500957	509789
1.1	LSG; Hinge Plate (3-Hinge Plate)	1	508232	500952	500951	500953	
1.2	LSG;Railing Bracket	2 [3*]	501007	501006	501004	501007	501007
1.3	LSG;Torsion Spring, St. Stl**	2 [3*]	501659	501659	501659	501659	501659
1.4	Bearing;G300 Flange, .3125ID	4 [6*]	509753	509753	509753	509753	509753
1.5	Nut;Nylock 5/16"18	2 [3*]	501121	501126	501126	501121	501121
1.6	Bolt;Hex5/16"-18 x 3"	2 [3*]	500433	500431	500431	500433	500433
2	LSG; Hoop/Gate Arm—XX	1	Part # dependent on size of gate. Consult Factory.				
3	Bolt;Carriage 5/16"18 x 2"	4	509980	500326	500326		509980
3	Bolt;Hex 5/16"18 x 3/4" SS	4				500430	
4	Washer;Flat 5/16"	4	501948	501949	501949	501948	501948
5	Nut;Nylock 5/16"18	4	501121	501126	501126	501121	501121
6	WS;DM.4375" x.625" x 5.0" D ST	1	513632	513632	513632	513632	513632
7	Decal;LSG Ansi Danger	2	500569	500569	500569	500569	500569
8	LSG;Hardware Bag (2-Hinge Plate)	1	502076	502075	502075	502076	502076
8	LSG;Hardware Bag (3-Hinge Plate)	1	510976	502204	502204	510976	510976
8.1	Nut; Nylock 5/16"-18	4 [6*]	501121	501126	501126	501121	501121
8.2	Bolt;U 5/16"18 x 1 1/2" Pipe	2 [3*]	500459	500461	500461	500459	500459
8.3	Washer;Flat 5/16"	4 [6*]	501948	501949	501949	501948	501948
8.4	LSG;Cap Plastic for 5/16 Bolt	4 [6*]	500932	500932	500932	500932	500932
9	LSG;Installation/O & M Manual	1	509210	509210	509210	509210	509210
10	LSG;Support Block Kit (All gates 30" and larger)	1	503753	503633	503633	503753	503753
10.1	Screw;Hex Drill 14x2	5	506072	506020	506020	506072	506072
10.2	LSG;UHMW Support Block	1	503632	503632	503632	503632	503632



## Replacement Parts List

### SS-SW Gates Hardware Variant



FINISH OPTIONS	
SS	Stainless Steel
SS-SW	Stainless Steel - Seal Welded
PCY	Powder Coat Safety Yellow
GAL	Hot Dipped Galvanized
ALU	Aluminum

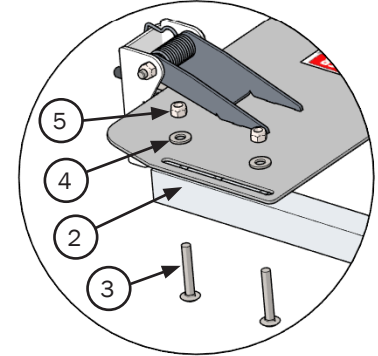
Mounting hardware for all Stainless Steel gates is type 316 alloy

\*Quantity for 3-Hinge Plate variants

\*\*For replacement springs, order Torsion Spring Kit (part #511686.) Kit includes (1)LSG Torsion Spring, (2)Bushings and Installation Instructions.

**TO ORDER PARTS CONTACT PS SAFETY ACCESS AT  
877.446.1519 or 4psinfo@psdoors.com**

### ALU Gates Hardware Variant



## Inspection and Maintenance

### X. Inspection and Maintenance (Minimum Annually)

**IMPORTANT!** Consult parts list before replacing fasteners, as all have specific design load requirements. Only use like items for replacement.

#### A. Ladder Safety Gate:

1. Inspect components for damage and misalignment. Adjust, repair, or replace as needed, to meet original design tolerance.
2. Check gates for proper alignment with catch. Adjust as necessary to achieve proper alignment.

#### B. Fasteners and mechanical connections

1. All fasteners must be in place and adjusted to their original design standard. Replace any damaged components.
2. Check all mounting connections, making sure they meet original design standards (refer to instructions).

#### C. Finishes

1. Inspect and clean finishes periodically.
2. Touch up repair finishes, or refinish as necessary to protect the structural integrity of the Ladder Safety Gate.
3. The PCY Ladder Safety Gate comes with a polyester powder coat finish. Use finish materials compatible with powder coat. Follow paint manufacturers' instructions for prep and touch-up.

#### D. Housekeeping

1. To ensure your product continues to operate and last, upon completion of proper installation, complete the following:
  - a. Clean all surfaces.
  - b. If project is ongoing, protect installed products until final completion of project.
  - c. Touch-up, repair, or replace damaged components.
2. Ensure the area is clear of debris and interferences while swinging the gates.

#### E. Labels and Placards:

1. Inspect all labels and placards.
2. Replace any labels and placards which are unreadable/missing.

Inspection and Maintenance Log

CRITICAL Periodic Inspection and Maintenance Required. Inspect at minimum annually.

Date Purchased: \_\_\_\_\_

Product: \_\_\_\_\_

Model Number: \_\_\_\_\_

Serial Number: \_\_\_\_\_

Door Identifier / Number: \_\_\_\_\_

Location: \_\_\_\_\_

DATE INSPECTED	INSPECTED BY <i>(Print &amp; Sign)</i>	INSPECTION ITEMS NOTED	CORRECTIVE ACTION	CORRECTED BY <i>(Print &amp; Sign)</i>

## PS DOORS – LIMITED WARRANTY

**Limited Warranty:** Subject to the terms of this Limited Warranty, Production Specialties Corporation, doing business as PS DOORS (“PS DOORS”) warrants to the original user or consumer (the “Owner”) of a PS DOORS product (the “Product”) that, for a period of one (1) year from date of shipment, the Product will be free from defects in material and workmanship under normal use and service, and provided the Product is installed, operated and maintained in accordance with instructions supplied by PS DOORS. The terms and limitations of this Limited Warranty apply to all repaired or replacement Products for a term equal to the balance of the warranty remaining on the Product that was repaired or replaced as of the date of such repair or replacement.

**PS Flood Barriers™ Product Warranty Registration:** For PS DOORS Flood Barrier™ Products, this Limited Warranty will only be valid if the Owner completes the Warranty Registration Form provided within thirty (30) days of Product installation. To request a copy of the Warranty Registration Form, contact PS DOORS, 1150 S. 48th Street, Grand Forks, ND 58201, phone 877-446-1519, email: 4psinfo@psdoors.com. Additional Warranty Registration Forms can be downloaded at [www.psfloodbarriers.com/download-center/](http://www.psfloodbarriers.com/download-center/)

**Warranty Exclusions:** Notwithstanding anything to the contrary, this Limited Warranty does not cover any of the following:

1. Normal wear and tear (including, but not limited to, normal wear and tear to gaskets and weather seals); damage or accidents resulting from freight damage, from failure to follow precautionary safety measures, or applied paint failure; abuse, misuse or unauthorized modification of the Product; misapplication; improper installation; or any defects, damage or other harm that is not the result of the acts or omissions of PS DOORS.
2. Cost of field labor or other charges incurred by Owner in removing and/or re-affixing the Product or any part or component thereof.
3. Transportation costs.

Unauthorized modification of or to the Product voids this Limited Warranty. Authorized modifications, received in writing from PS DOORS, as long as the modification is accomplished in strict accordance with PS DOORS’ instructions, does not void warranty. To request product modifications contact PS DOORS, 1150 S. 48th Street, Grand Forks, ND 58201, phone 877-446-1519, email: 4psinfo@psdoors.com.

**Claim Procedure:** To make a claim under this Limited Warranty, the claim must be received by PS DOORS before the expiration of the above stated Limited Warranty period together with proof of purchase. Contact PS DOORS at the address shown below.

PS DOORS	Toll Free: 877-446-1519
Attention: Warranty	Phone: 701-746-4519
1150 S. 48th Street	Fax: 701-746-8340
Grand Forks, ND 58201	E-mail: 4psinfo@psdoors.com

An authorized PS DOORS representative must be given a reasonable opportunity to inspect and investigate the alleged Product defect prior to any work being done that affects the Product or its installation. PS DOORS reserves the right to charge reasonable amounts for travel and labor associated with investigation of claims. PS DOORS may also require photographs of the alleged Product defect or return of the Product or part to a designated PS DOORS location, freight prepaid. A return goods authorization must be received prior to the return of the Product or part. Please contact PS DOORS to determine the designated location for return and to obtain the return material authorization.

**Exclusive Remedy:** In the event of a warranty claim that PS DOORS determines to be covered by this Limited Warranty, PS DOORS will replace or repair, at PS DOORS’ discretion, the Product or any part of the Product found to be defective.

**Disclaimers:** The above warranty and remedy is the sole express warranty and remedy given by PS DOORS on its Product. No warranties or representations at any time made by any representative from PS DOORS shall vary or expand the provisions hereof. TO THE EXTENT PERMITTED BY LAW, ALL EXPRESS AND IMPLIED WARRANTIES (INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT) OTHER THAN THE EXPRESS LIMITED WARRANTY SET FORTH ABOVE ARE EXPRESSLY DISCLAIMED. UPON THE EXPIRATION OF THE ABOVE STATED LIMITED WARRANTY PERIOD, ANY AND ALL APPLICABLE IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT, ARE DISCLAIMED. SOME STATES DO NOT ALLOW LIMITATION ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO OWNER.

**LIABILITY LIMITATION:** In no event will PS DOORS’ liability to Owner or any other person or entity exceed the price paid to PS DOORS for the defective Product. IN NO EVENT SHALL PS DOORS BE LIABLE TO OWNER OR ANY OTHER PERSON OR ENTITY FOR INCIDENTAL, CONSEQUENTIAL, INDIRECT OR SPECIAL DAMAGES OF ANY DESCRIPTION, WHETHER ARISING OUT OF WARRANTY (INCLUDING ANY IMPLIED WARRANTIES) OR ANY OTHER CONTRACT, STRICT LIABILITY, NEGLIGENCE OR OTHER TORT, OR OTHERWISE, INCLUDING ARISING FROM INSPECTION OR REMEDY DELAYS. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION AND EXCLUSION MAY NOT APPLY TO OWNER.

THIS WARRANTY GIVES OWNER SPECIFIC LEGAL RIGHTS AND OWNER MAY ALSO HAVE OTHER RIGHTS, WHICH VARY FROM STATE TO STATE.



**PS Access Solutions™**  
*The Ins And Outs Of Industry*



**PS Safety Access™**  
*We Won't Let You Down*



**PS Flood Barriers™**  
*Solutions That Hold Water*

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