

Ladder Safety Gate

Installation Instructions/Operation and Maintenance Manual



Models

All Models:
LSG-15 to LSG-48

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PS DOORS Contact Information

Mail

PS DOORS
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Local Phone

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Email

4psinfo@psdoors.com

Website

psdoors.com

Hours of Operation

8 A.M. to 5 P.M. CT
Monday – Friday

IMPORTANT! Read entire 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 DOORS 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 DOORS and/or its respective suppliers may make improvements and/or changes in the product(s)/service(s) offered at any time without notice.

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Product Information

I. General Information

- A. This manual contains information regarding installation, operation, and maintenance of the Ladder Safety Gate (PCY, GAL, SS, SS-SW and ALU.)
- B. 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.

NOTICE Before beginning any portion of the site preparation and installation of the Ladder Safety Gate, read the entire manual and review all Installation Instructions thoroughly.

Inspection and Maintenance

III. Inspection and Maintenance

- A. Fasteners and mechanical connections: All fasteners must be in place and adjusted to their original design standards. Replace any damaged components. Check for broken springs periodically to ensure proper functionality. Replace as necessary.
- B. Finishes: touch up and repair as necessary.
- C. Label: Replace if missing or illegible.

NOTICE This product is manufactured to specific guidelines. Unauthorized alteration in any way will result in voiding factory warranty, and may cause product to fail with potential serious consequences. Accordingly, if the product requires service after unauthorized modification, you can expect any request for warranty repair to be charged to you. Authorized modifications, received in writing from PS DOORS, as long as the modification is accomplished strictly in accordance with PS DOORS' instructions, does not void warranty. To request product modifications contact PS DOORS.

PS DOORS Limited Warranty

IV. Limited Warranty

PS DOORS warrants this product and components to be free from defects in material and workmanship for a period of (1) year from ship date. If within the term of this warranty, any Ladder Safety Gate or component is found to be defective upon inspection by an authorized PS DOORS representative, PS DOORS will replace or repair, at PS DOORS' discretion, any part found to be defective. Any field labor charges incurred are the sole responsibility of the customer.

To make a claim under this warranty, contact PS DOORS at:
 PS DOORS, Attention: Warranty
 1150 South 48th Street
 Grand Forks, ND 58201

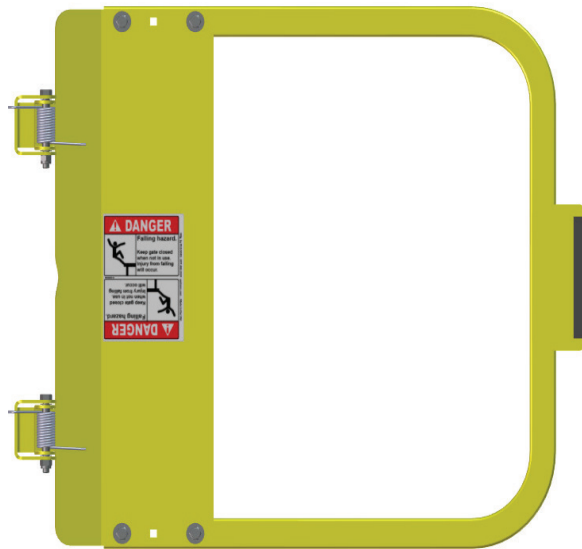
Unauthorized modification of or to this product voids the PS DOORS limited warranty. Accordingly, you can expect any request for warranty repair to be charged to you, if the product requires service after unauthorized modification. Authorized modifications, received in writing from PS DOORS, as long as the modification is accomplished in strict accordance with PS DOORS' instructions, does not void warranty. Contact PS DOORS to request product modifications.

PS DOORS SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES. WARRANTY DOES NOT APPLY TO ANY DAMAGE OR DETERIORATION CAUSED BY MODIFICATION, ABUSE, APPLIED PAINT FAILURE OR FAILURE TO PROVIDE REASONABLE AND NECESSARY MAINTENANCE.

All other warranty's expressed or implied including any warranty of merchantability, are expressly excluded. Some states do not allow the exclusion or limitation of consequential or incidental damages, so the above limitation or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which vary, from state to state.

Installing Ladder Safety Gate

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



(1) Installation and Maintenance
Manual

Recommended Tools:

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

Ladder Safety Gate Part List (As shipped)

ITEM NUMBER	DESCRIPTION	QUANTITY
4	Washer; Flat 5/16"	4 [6*]
5	Nut; Nylock 5/16" x 18"	4 [6*]
8.6	Screw; Hex #14-1"	4
8.2	U Bolt; 5/16" 18x1	2 [3*]
8.4	LSG; Plastic Cap for 5/16" Bolt	4 [6*]
8.6	Screw; Hex Drill 14x2 (Stop block kit)**	4
8.7	UHMWBLK, Support Block (Stop block kit)**	1

* Quantity for 3-hinge variants.

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

V. Installation Site Preparation

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

VI. Installation Safety Precautions

- A. Comply with all OSHA and ANSI Safety Regulations and/or company safety policies when installing.

▲ 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.

Installing on Standard Railing

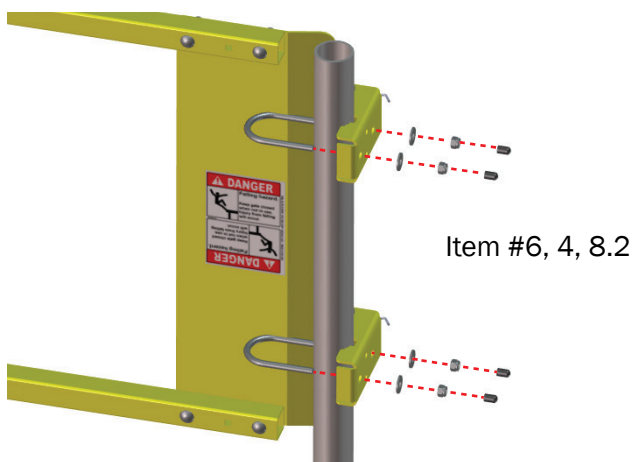
VII. Installing a ladder safety gate on a standard 2" O.D. railing (Railing up to 2" O.D. round or 1.5" x 1.5" square.)

NOTICE Refer to parts list on page 2 for part item numbers.

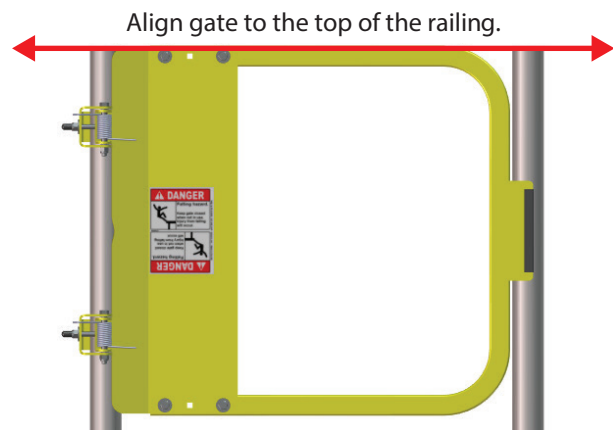
Step 1. Loosely attach the Ladder Safety Gate railing/mounting bracket to vertical column of railing with provided U-bolts. Do not tighten, additional adjustment may be required.

Step 2. Adjust top of safety gate to align with top of railing.

Step 1. Illustration



Step 2. Illustration

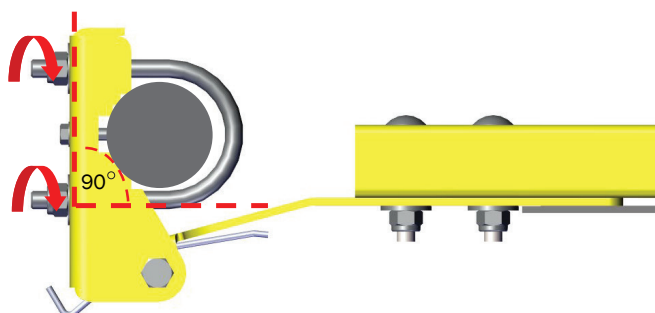


Step 3. Align railing/mounting bracket to be perpendicular (90°) to Ladder Safety Gate opening, tighten U-Bolts.

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 for hinge plate and hoop/gate arm. Ensure stop plate overlaps and contacts adjacent vertical column of railing system allowing for 1/4" maximum of clearance.

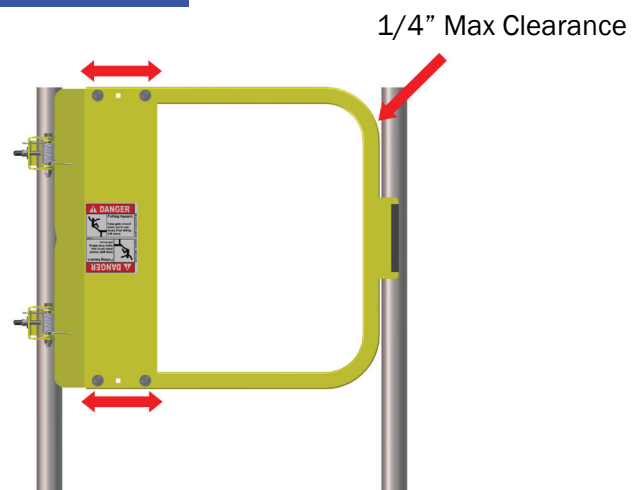
Step 3. Illustration

Top View



CRITICAL: Ensure all bolts/nuts are tight.

Step 4. Illustration

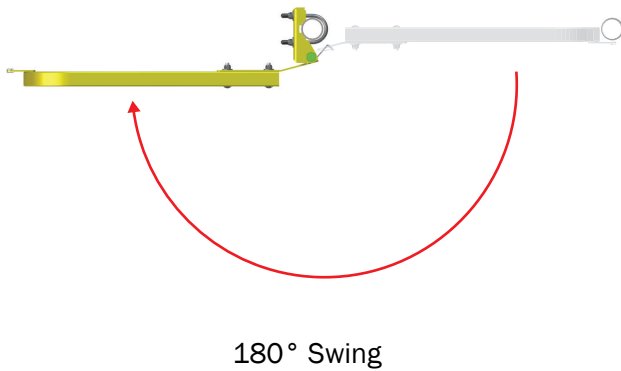


Installing on Standard Railing

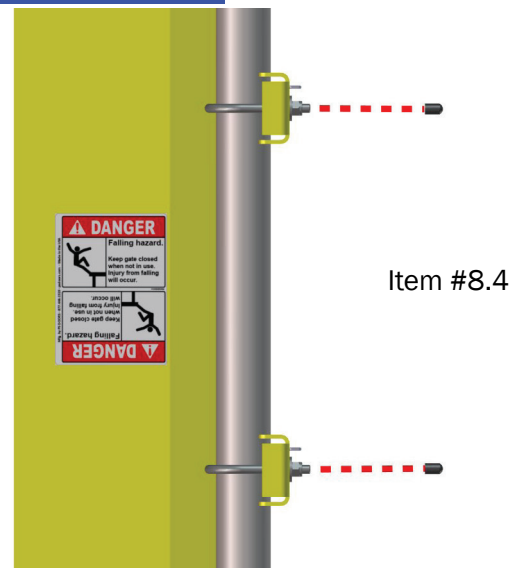
Step 5. Operate gate through full swing range to check for proper alignment.

Step 6. Tighten U-Bolts into final position. Install plastic protective thread caps (optional).

Step 5. Illustration

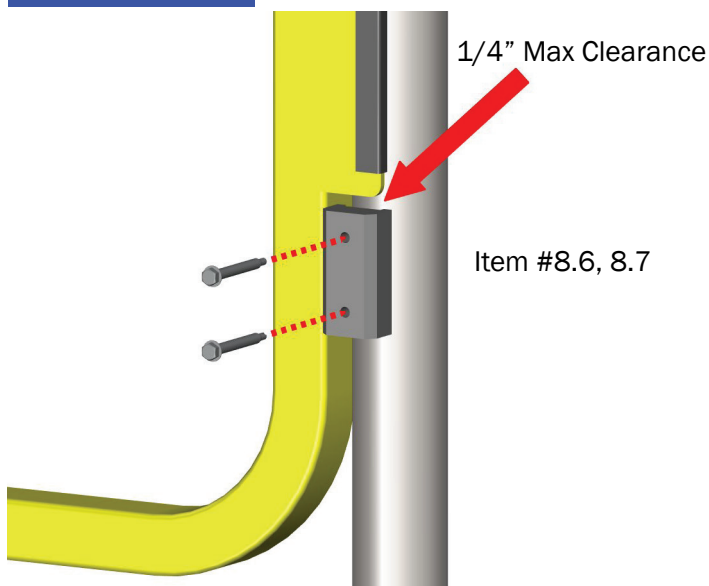


Step 6. Illustration



Step 7. For Models LSG-30 - LSG-48 only, utilize provided self-drillers and fasten support block to railing.

Step 7. Illustration



Installing on Angle Iron Railing

VIII. Direct mount installation on angle iron railing.

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 DOORS at 877.446.1519 to order a “no drill” adapter bracket.

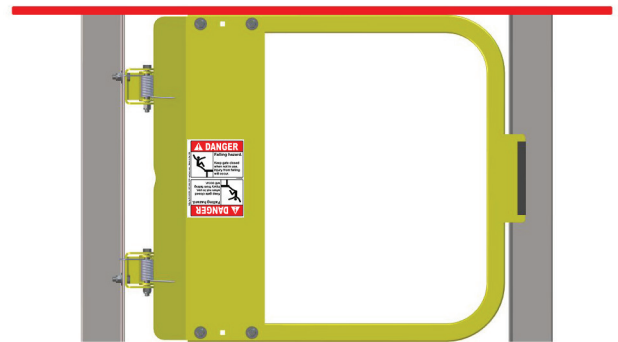
Step 1. Align the Ladder Safety Gate railing/mounting bracket flush to the inside of the angle iron.

Step 2. Align the top of the Ladder Safety Gate to match top of railing.

Step 1. Illustration



Step 2. Illustration



Step 3. Match drill two, 3/8” holes (one per hinge bracket).

Step 4. Mount Ladder Safety Gate with appropriate mounting fasteners. (NOT provided)

Step 3. Illustration



Step 4. Illustration



NOTICE Rest of gate not shown

NOTICE Hardware not included

Recommended Hardware: At a minimum use 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 4-5 for remainder of installation.

Installing on Flat Bar Railing or Wall Surface

IX. Direct mount installation on flat bar railing or flat wall surface.

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 DOORS at 877.446.1519 to order a “no drill” adapter bracket.

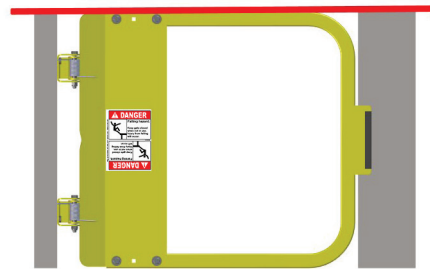
Step 1. Align the Ladder Safety Gate railing/mounting bracket flush to the flat surface/wall.

Step 2. Align the top of the Ladder Safety Gate to match top of railing.

Step 1. Illustration



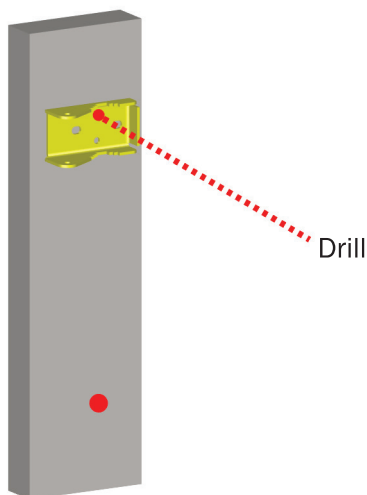
Step 2. Illustration



Step 3. Match drill two, 3/8” holes (one per hinge bracket). If no railing, adjust top of hoop/gate arm to 42” above walking surface.

Step 4. Mount Ladder Safety Gate with appropriate mounting fasteners. (NOT provided)

Step 3. Illustration



Step 4. Illustration



NOTICE Rest of gate not shown

Recommended hardware for mounting to flat bar railing: At a minimum use 5/16”, grade 5 hex head bolts of appropriate length with washers and self-locking nuts.

Recommended hardware for mounting to a wall: At a minimum use mechanical or chemical fastener, sized appropriately, for mounting material and loading requirements.

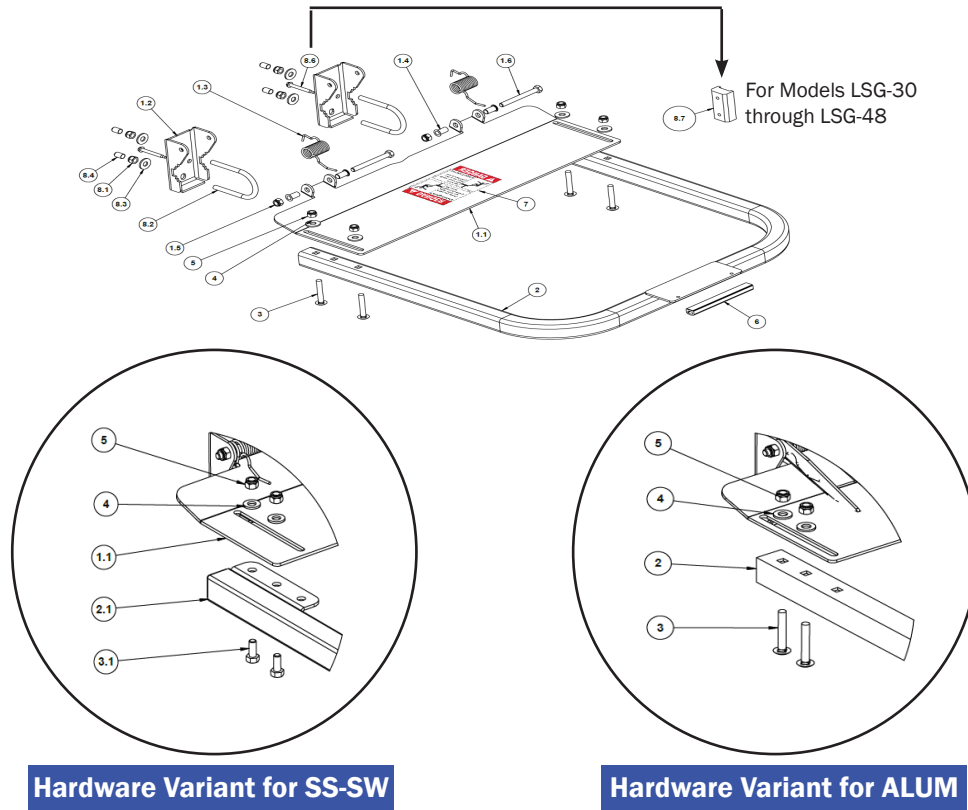
Step 5. Refer to steps 4-7 on page 4-5 for remainder of installation.

NOTICE If no stop surface is available for the stop plate to rest against, install stop surface (NOT PROVIDED), using appropriate anchoring hardware and material, to align with the stop plate.

Parts Diagram

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 shown below



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

Mounting hardware for all Stainless Steel gates is type 316 alloy

		Gate Finish Type					
#	DESCRIPTION	Qty.	SS	PCY	GAL	SS-SW	ALUM
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/Mounting Bracket	2 [3*]	501007	501006	501004	501007	501007
1.3	Spring: Torsion Spring, SLST**	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; Hex 5/16"-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				
2.1	LSG; Hoop/Gate Arm Weldment	1				Consult Factory	
3	Bolt; Carriage 5/16"-18 x 2"	4	509980	500326	500326		509980

			Gate Finish Type				
#	DESCRIPTION	Qty.	SS	PCY	GAL	SS-SW	ALUM
3.1	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	501123	501121	501121
6	WS: EPDM.4375" x.625"x5.0" DST	1	513632	513632	513632	513632	513632
7	Decal	2	500569 B+	500569 B+	500569 B+	500569 B+	500569 B+
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	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
8.5	LSG; Installation and O&M	1	509210	509210	509210	509210	509210
8.6	Screw; Hex Drill 14x2 (Stop block kit)	4	506072	506020	506020	506072	506072
8.7	UHMWBlk. Support Block (Stop block kit) (All gates 30" and larger)	1	503632	503632	503632	503632	503632

* 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 DOORS AT 877.446.1519 or 4psinfo@psdoors.com