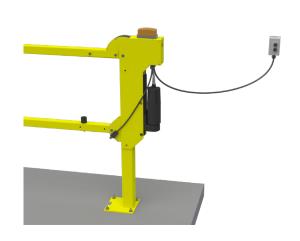
EDGESAFE®



Electric Operator Installation Instructions



Models:

All ESG Models
All ESGDBL Models

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Contact Information

Mail

PS Safety Access 1150 South 48th Street Grand Forks, ND 58201

Local Phone 701.746.4519

Toll Free Phone 877.446.1519

Website

pssafetyaccess.com

Email

4psinfo@psindustries.com

Hours of Operation 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 designed to work with the EdgeSafe® Single and Paired Gates. 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 a copy of this manual, please send an email to 4psinfo@psindustries.com

Product registration is an essential step to protecting your product, register Online at psindustries.com/contact/register-your-product/



Safety Precautions

The following icons are used throughout this Manual.

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

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

A 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.

Product Information

NOTICE Unauthorized modification of or to the Product voids this Limited Warranty. Authorized modifications, received in writing from PS Industries® Incorporated, as long as the modification is accomplished in strict accordance with PS Industries' instructions, does not void warranty. If this product is modified or altered without manufactures permission, manufacturer is no longer responsible for the product design, engineering, or performance and owner assumes all responsibility. To request product modifications contact PS Industries Incorporated, 1150 S. 48th Street, Grand Forks, ND 58201, phone 877-446-1519, email: 4psinfo@psindustries.com

I. General Information

- A. This manual contains information regarding installation, operation, and maintenance of the PS Safety Access' Electric Operator Kit.
- B. PS Safety Access recommends that the owner implement a regular preventative maintenance program to inspect and maintain the Smart Gate at a minimum, in accordance with the recommendations in this manual.

II. Operation Guidelines

- A. The use of these electric operator kits with ESG-60/96/120/144-PCY and ESGDBL-120-PCY Smart Gates are designed to meet:
 - 1. OSHA Railing Standard OSHA 1910.29, ANSI A1264.1-2017, Canada OHS SOR-86-304 Part II, and ISO 14122-3:2016.
- B. 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.

III. Safety Precautions

- A. Ensure opening is clear of all obstructions through the entire proposed travel of the Smart Gate during operation.
- B. Comply with all OSHA and ANSI Safety Regulations and/or company safety policies when installing.
- ▲ DANGER If installed on edge, ensure area below installation edge is blocked off from personnel during installation.

IV. 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.

V. Installation Site Preparation

NOTICE Before starting site preparation and installation of the Smart Gate Electric Operator, read the entire Operation and Maintenance Manual and all additional installation instructions thoroughly.

- A. Clear work area of any debris.
- B. Ensure you have the necessary tools available.
- C. Obtain all required permits.
- D. Personnel: Determine the appropriate number of personnel required to perform installation and have them readily available at the project site.
- E. Ensure all installation personnel utilize appropriate fall protection equipment and procedures during installation.

Product Information

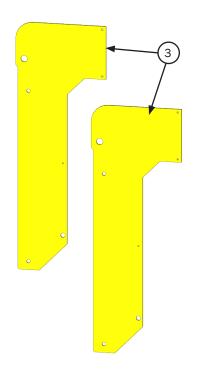
VI. Recommended Tools for Installation:

- A. Tools:
 - 1. Two (2) $^9/_{16}$ " Socket and Ratchets 2. Two (2) $^3/_4$ " Socket and Ratchets 3. One (1) Phillips Screwdriver

 - 4. One (1) Needle-nose Pliers

VII. Operator Kit Parts List

A. Review inventory to ensure all parts are present for assembly/installation. Refer to parts list below.



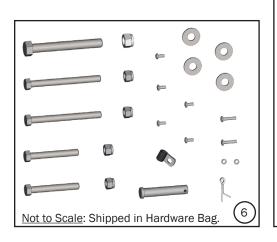


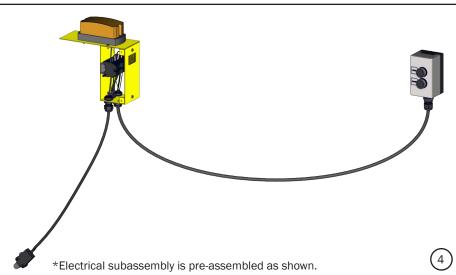
Operator Kit Part List (As shipped)

ITEM #	DESCRIPTION	QTY
1	ESG OPER;ARM BKT ASM	1
2	ELECTRIC LINEAR ACTUATOR; 850#, 8 STROKE	1
3	ESG OPER;POST BKT SIDE PCY	2
4	ESG OPER;ELECTRICAL SUB ASSY	*1
5	ESG OPER;ADJ CLEVIS CHAN PCY	1
6	ESG OPER;HARDWARE KIT	1





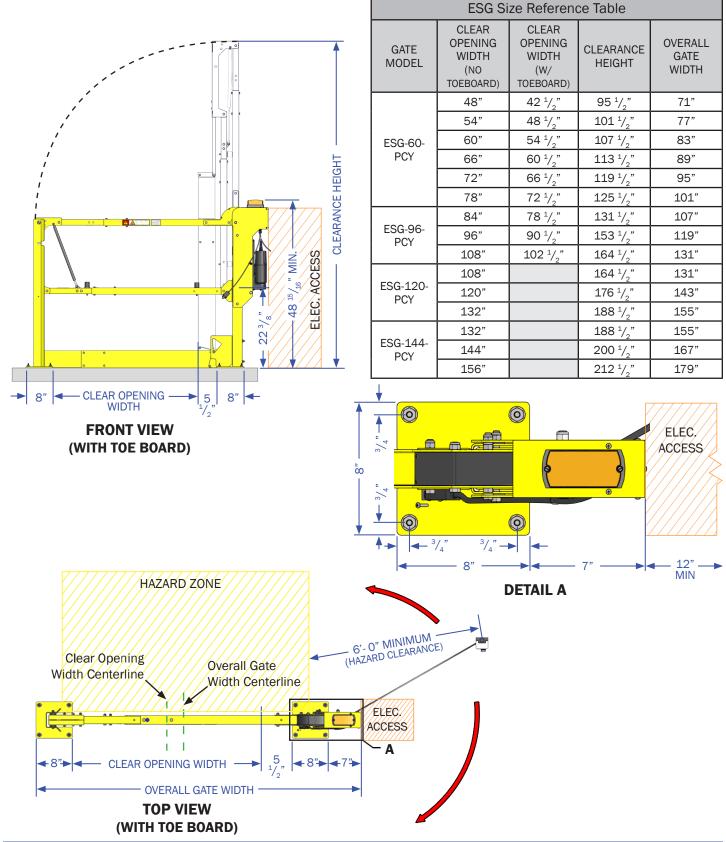




ESG Size Reference Drawing

VIII. ESG Size Reference Drawing

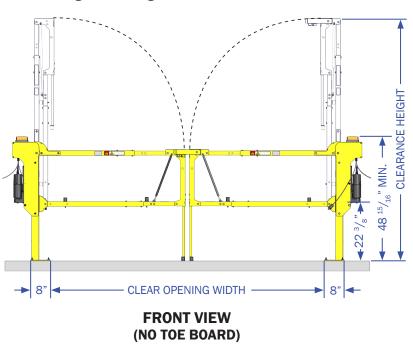
A. EdgeSafe® Smart Gate shown with optional Toe Board Kit.

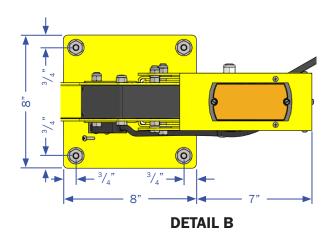


ESGDBL Size Reference Drawing

IX. ESGDBL Size Reference Drawing

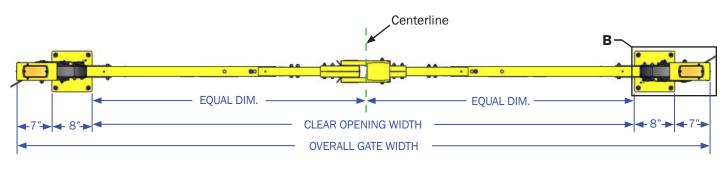
A. Views are shown without Hazard Zone and Electrical Access areas shown, these would be similarly required as the EdgeSafe® Single Gate.





ESGDBL Size Reference Table			
GATE MODEL	CLEAR OPENING WIDTH	CLEARANCE HEIGHT	OVERALL GATE WIDTH
	108"	95 ¹ / ₂ "	138"
	114"	101 ¹ / ₂ "	144"
	120"	101 ¹ / ₂ "	150"
	126"	107 ¹ / ₂ "	156"
	132"	107 ¹ / ₂ "	162"
*ESGDBL- 120-PCY	138"	113 1/2"	168"
120101	144"	113 ¹ / ₂ "	174"
	150"	119 ¹/₂"	180"
	156"	119 1/2"	186"
	162"	125 ¹ / ₂ "	192"
	168"	125 ¹ / ₂ "	198"
	180"	131 1/2"	210"
	192"	153 ¹ / ₂ "	222"
ESGDBL- 192-PCY	204"	153 ¹ / ₂ "	234"
102101	216"	164 ¹ / ₂ "	246"
	228"	164 ¹ / ₂ "	258"
	228"	164 ¹ / ₂ "	258"
	240"	176 ¹ / ₂ "	270"
ESGDBL- 240-PCY	252"	176 ¹/₂"	282"
240101	264"	188 ¹/₂"	294"
	276"	188 ¹/₂"	306"
	276"	188 ¹ / ₂ "	306"
	288"	200 1/2"	318"
ESGDBL- 288-PCY	300"	200 1/2"	330"
	312"	212 1/2"	342"
	324"	212 1/2"	354"
*Toe Board Kits on these models reduce clear			

^{*}Toe Board Kits on these models reduce clear opening by 11", refer to chart in Toe Board O&M for dimensions.



TOP VIEW (NO TOE BOARD)

X. Installation of Operator on an Existing Gate.

- A. If installing Electric Operator on an existing ESG, a complete depressurization should be completed to replace the adjustable clevis (Step 1 through Step 5).
- B. For new gate installation with Operator, skip ahead to Step 6 on Page 7.
- ▲ DANGER SYSTEM UNDER HIGH PRESSURE! Refer to depressurization instructions in Operation and Maintenance Manual before doing any maintenance on the gate.
- **STEP 1.** With gate in the closed position (gate arms horizontal).
 - a. Remove only the leading $\frac{3}{8}$ hex bolt and nylock nut from Dampener Mount Link (as shown in Illustration).

Step 1
Illustration I

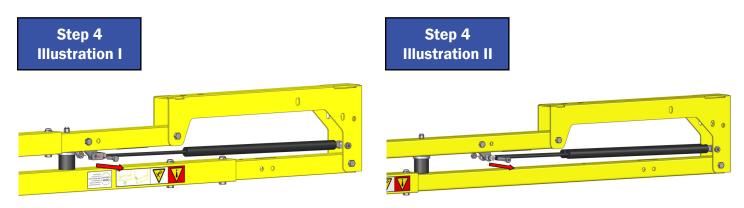


- **STEP 2.** Open or lift gate to the "open" position (gate arms vertical) before proceeding with Step 3.

 a. You will hear a click as the link rocks out of position, this is normal during the disassembly step.
- ▲ **WARNING** High internal gate forces! Before removing Gate Post base plate fasteners, the gate must be in the open position (gate arms vertical) so the dampener is in a non-compressed state.
- **STEP 3.** With the Gate in the "open" position, remove the anchor nuts on the Gate Post.
 - a. Use team lift to lay on the ground as shown for improved access during dampener installation.

NOTICE To protect the Powder Coat finish, lay on cardboard.

- **A WARNING** The Smart Gates are heavy. Verify weights and use appropriate lifting procedures and equipment.
- **STEP 4.** Carefully remove spacers, bolts, and nuts from Dampener end.
 - a. For ESG-60-PCY Gates refer to Illustration I.
 - b. For ESG-96/120/144-PCY Gates refer to Illustration II.



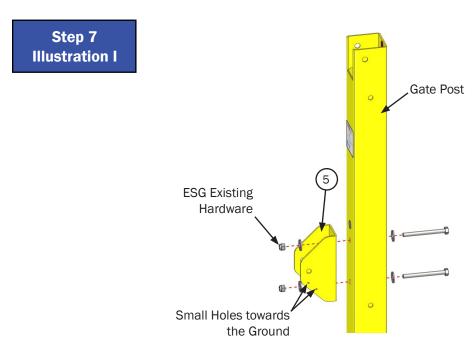
STEP 5. Remove the $^3/_8$ " shoulder bolt, spacer(s), and nut from the other end of the Dampener.

XI. Installation of Operator on a new Gate Install.

A. If disassembling Existing Smart Gate first complete depressurization process on Page 6 before continuing with Operator Kit Installation.

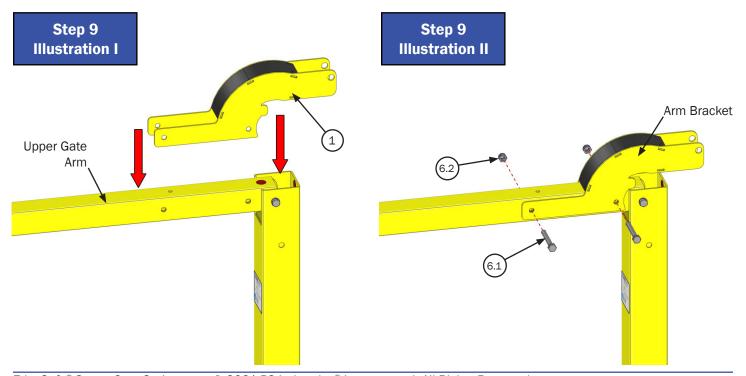
STEP 6. Unpack Operator Kit.

STEP 7. Attach Adjustable Clevis with supplied hardware from ESG's "Step 2" hardware bag. a. Tighten bolts, bracket height will be adjusted later in installation steps.



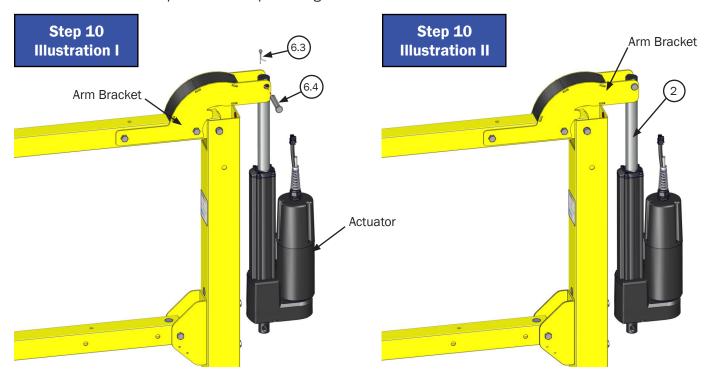
STEP 8. Continue with Installation Step 3 through Step 16 in ESG 0&M before continuing with Operator Installation.

STEP 9. Install Arm Bracket onto upper gate arm using supplied $\frac{3}{8}$ bolts and nylock nuts.



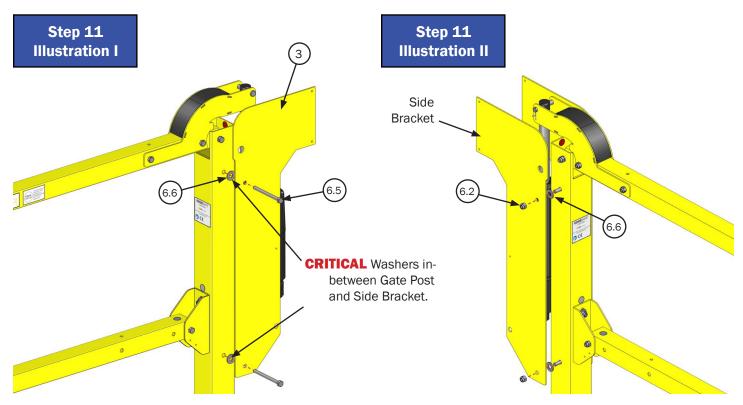
STEP 10. Unpack Actuator from Operator Kit and hang Actuator in place.

a. Install clevis pin with cotter pin through Arm Bracket Weldment.



STEP 11. Install Side Brackets onto post one side piece at a time.

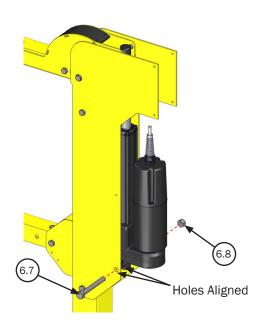
- a. Slide $^3/_8$ " flat washer in-between Side Bracket and Gate Post, then attach $^3/_8$ " bolt to attach side in place. b. Slide $^3/_8$ " flat washer on bolt on other side of Gate Post before attaching remaining Side Bracket and secure with nylock nut.



- **STEP 12.** Align bottom hole aligns with the Side Bracket Plates.
 - a. Install $\frac{1}{2}$ bolt and nylock nut through Side Bracket Plates and Actuator.

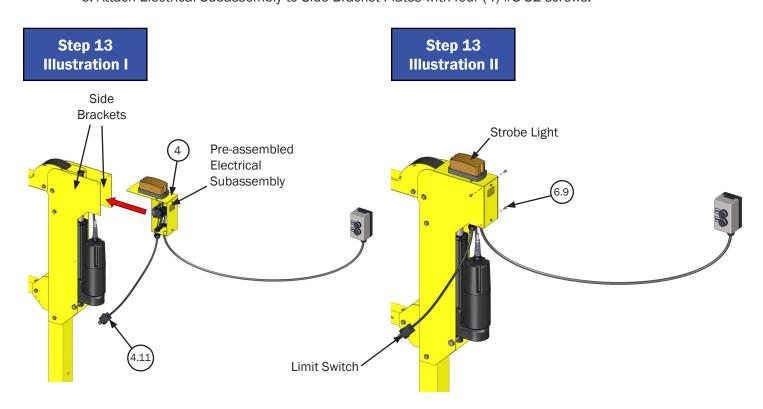
CRITICAL DO NOT OVER-TIGHTEN BOLTS.

Step 12
Illustration I

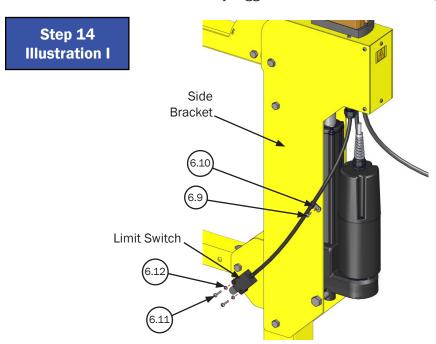


STEP 13. Identify the pre-assembled Electrical Subassembly and attach to the Side Bracket Plates.

- a. Carefully slide subassembly in-between the side plates while being careful with Strobe and Limit Switch.
- b. Attach Electrical Subassembly to Side Bracket Plates with four (4) #8-32 screws.



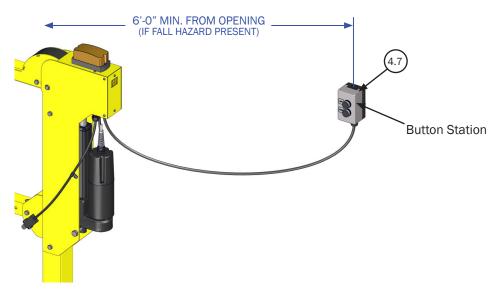
- **STEP 14.** Attach the Limit Switch to the new Adjustable Clevis.
 - a. Fasten the cable strain relief to the Side Plate with loop clamp and #8 x $\frac{3}{8}$ screw (to route the cable so it is not pinched).
 - b. Secure Limit Switch with #8 x $^3/_4$ " screws and split lock washers. The switch comes factory adjusted and will need to be manually triggered and fitted in order to align the holes for fastening.



STEP 15. Mount Button Station 6 feet away from opening or fall hazard.

a. If no fall hazard exists, then mount in a convenient location.

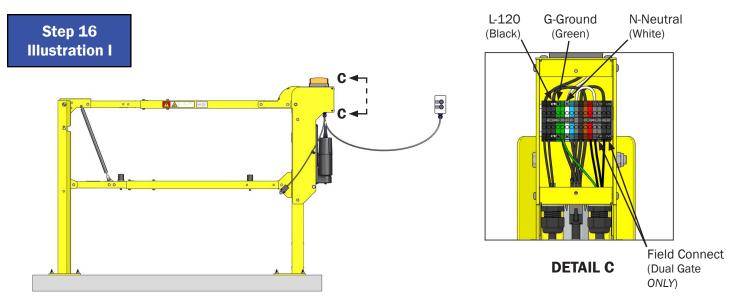




CRITICAL Control Panel will require on-site electrical installation by a qualified Electrician, <u>NOT</u> PS Industries. Required supply voltage is 120VAC 5A.

STEP 16. Wire power to "L/N/G" terminals in the Electrical Gate Control Panel (refer to Illustrations located on Page 11).

NOTICE For installations with multiple button stations, one button station is factory wired to the gate control box. The second button station must be installed in series with the first button station (refer to Button Station Reference Drawing on Page 13).



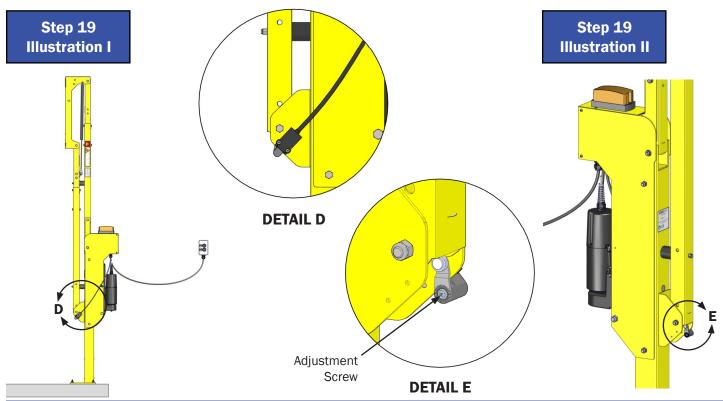
STEP 17. If installing Electrical Operator Kit on Paired Smart Gates:

- a. Remove the Button Box from one of the Smart Gates.
- b. Only power ONE gate and interconnect power (3 wires).
- c. Interconnect C-to-C and O-to-O (2 wires) between gates.
- d. Connect power to one gate and wire second button station in series with first button box.

STEP 18. Repeat Step 1 through Step 17 for other Smart Gate Assembly (if installing Operator Kits on Paired Gates).

STEP 19. Final adjustments of Smart Gate.

- a. Raise, lower, and adjust per Step 16 of ESG 0&M or Step 17 of ESGDBL 0&M.
- b. The roller switch is factory set and should not need to be adjusted. However, if the user desires the strobe light to turn on and off at a different gate position, the roller arm position can be adjusted to suit.



Replacement Parts List

XII. Replacement Parts List

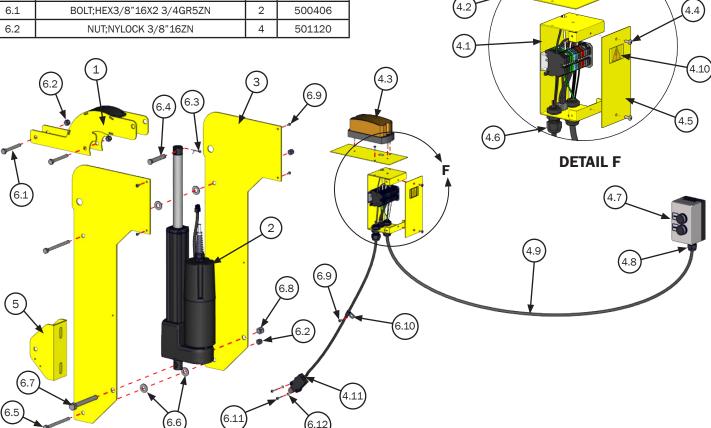
A. The Replacement Parts List and Diagrams are for all EdgeSafe® Electric Operator Kits.

Electric Operator Kit (Part # 515639) Replacement Parts List			
ITEM #	DESCRIPTION	QTY	PART #
1	ESG OPER;ARM BKT ASM	1	515656
2	ELECTRIC LINEAR ACTUATOR; 850#, 8 STROKE	1	515640
3	ESG OPER;POST BKT SIDE PCY	2	515661
4	ESG OPER;ELECTRICAL SUB ASSY	1	515737
4.1	ESG OPER;ELEC BOX PCY	1	515663
4.2	ESG OPER;ELEC BOX TOP PCY	1	515662
4.3	STROBE LIGHT; AMBER	1	501143
4.4	SCREW;PANPHMACH8-32X3/8" ZN	4	510930
4.5	ESG OPER;ELEC BOX COVER PCY	1	515664
4.6	CORD GRIP;3/8NPT BLACK PLASTIC	2	515650
4.7	CONTROL TWO BUTTON NEMA 4	1	502912
4.8	CORD GRIP;1/2NPT BLACK PLASTIC	1	515651
4.9	CABLE;185/3BLACK+GND, GREY PVC	1	515639- CABLE
4.10	LABEL;HIGH VOLTAGE, ISO 3864, 1"X1.5"	1	515676
4.11	ROTARY LEVER SWITCH;SNAP-ACTION, PLASTIC MOLDED	1	515641
5	ESG OPER;ADJ CLEVIS CHAN PCY	1	515710
6	ESG OPER;HARDWARE KIT	1	515711
6.1	BOLT;HEX3/8"16X2 3/4GR5ZN	2	500406
6.2	NUT;NYLOCK 3/8"16ZN	4	501120

Finish Options		
PCY	Powder Coat Safety Yellow	

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

Electric Operator Kit (Part # 515639) Replacement Parts List			
ITEM #	DESCRIPTION	QTY	PART #
6.3	PIN;COTTER 1/8 X 3/4 ZN	1	503403
6.4	PIN;CLEVIS 1/2"X 2-1/2", ZN	1	515675
6.5	BOLT;HEX3/8"16X4 GR5ZN	2	502859
6.6	WASHER;FLAT 3/8"ZN	4	501947
6.7	BOLT;HEX1/2"13X4GR5ZN	1	500362
6.8	NUT;NYLOCK 1/2"13 ZN	1	501123
6.9	SCREW;PANPHMACH8-32X3/8" ZN	5	510930
6.10	CLAMP;LOOP VINYL-COATED 1/4"OD	1	509341
6.11	SCREW;PANPHMACH8-32X3/4ZN	2	501516
6.12	WASHER;SPLIT LOCK #8 ZN	2	515654

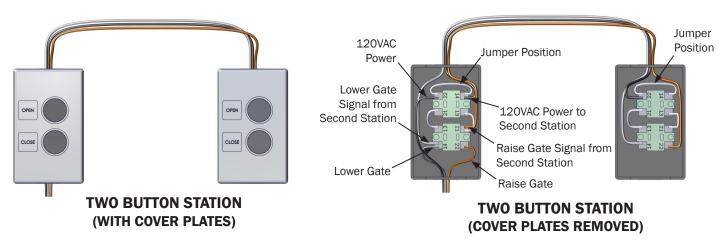


Wiring Diagrams

XIII. Wiring Diagram for Second Button Station

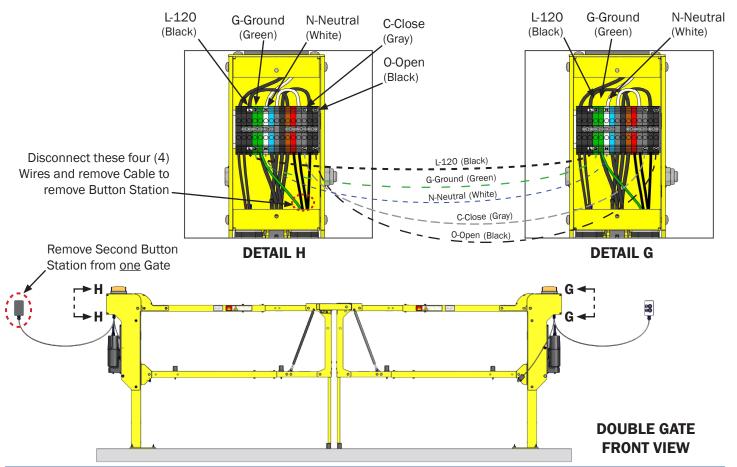
- A. Verify terminal numbers before wiring second button station (refer to Illustrations below for terminal numbering).
- B. Electric Operator Kit only includes one (1) button station but others may be added by ordering from Replacement Parts List on Page 14.

CRITICAL Jumpers must be located in the positions shown! Jumper positions <u>DO NOT</u> change as more Button Stations are installed.



XIV. Wiring Diagram for Double Gate Installation

CRITICAL When installing operators on a double gate, removal of the button station from one gate <u>IS</u> required!



Inspection and Maintenance

XIV. Inspection and Maintenance

- A. Environmental conditions may affect the maintenance and repair requirements of the product, and recommended preventative maintenance frequency.
- B. If any of the inspection items are found to not meet the standard IMMEDIATELY "TAG OUT" the EdgeSafe® Smart Gate removing it from active use and guard the opening until repairs are completed.
- **NOTICE** PS Safety Access recommends that the owner implement a regular and preventative maintenance program to inspect and maintain Smart Gate at a minimum, in accordance with the recommendations in the table below.
- ▲ **WARNING** While performing maintenance and inspection ensure personnel utilize appropriate fall protection equipment and procedures.

	Recommended Preventative Maintenance				
ITEM	FREQUENCY	ITEM DESCRIPTION	WHAT TO INSPECT	STANDARD	REPAIR ACTION
1	Each Use	General Housekeeping	Opening	Opening must be kept free of debris and obstructions.	Always keep area clean.
2	Weekly	Gate	Gate for corrosion or damage.	To protect the structural integrity and provide engineered safety protection.	Touch up finishes, or refinish as necessary.
			Welds	Welds are intact without visible cracks or crazing.	Repair or Replace component immediately.
			Gate alignment and free movement.	Gate must move freely without any interference; levelness from ground/walking surface.	Adjust gate as necessary.
3	Weekly	Posts	Post assemblies for corrosion or damage.	To protect the structural integrity and provide engineered safety protection.	Touch up finishes, or refinish as necessary.
			Welds	Welds are intact without visible cracks or crazing.	Repair or Replace component immediately.
4	Monthly	Structural Attachment	All Fasteners (Structural Attachment)	Fasteners must be present and be Snug Tight; connections pulled into firm contact by the fastener, no gaps between material.	Tighten fasteners to snug tight. Replace any missing fasteners.
5	Monthly	Actuator	Actuator for free movement and no corrosion or damage.	Must be free of all debris, operates smoothly without interference.	Replace if damage or deterioration to Dampener has occurred. Use only Factory approved products.
6	Monthly	Clevis Pin	Pin	No wear, Smooth operation of actuator.	Replace pin
			Cotter Pin	Cotter pin in place. Prongs spread in opposite directions 90 degrees.	Replace or re-spread Cotter Pin
7	Monthly	Dampener	Dampener for free movement and no corrosion or damage.	Must be free of all debris, operates smoothly without interference.	Replace if damage or deterioration to Dampener has occurred. Use only Factory approved products.
			Self-lubrication	Must be well lubricated.	Run Dampeners through full stroke length to re-lubricate.
8	Monthly	Labels	All labels	Manufacturer's labels in place and legible.	Replace. Contact manufacturer for FREE replacement labels.

PS INDUSTRIES® INCORPORATED - LIMITED WARRANTY

Limited Warranty: Subject to the terms of this Limited Warranty, PS Industries® Incorporated warrants to the original user or consumer (the "Owner") of a PS Industries 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 Industries. 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. Register online at: www.psindustries.com/contact/register-your-product

PS Flood Barriers™ Product Warranty Registration: For PS Flood Barriers™ 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 Industries Incorporated, 1150 S. 48th Street, Grand Forks, ND 58201, phone 877-446-1519, email: 4psinfo@psindustries.com. Register online at: www.psindustries.com/contact/register-your-product/ Additional Warranty Registration Forms can be downloaded at www.psfloodbarriers.com/download-center/

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

- 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 Industries.
- 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.
- Transportation costs.

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

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

PS Industries Incorporated 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@psindustries.com

An authorized PS Industries 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 Industries reserves the right to charge reasonable amounts for travel and labor associated with investigation of claims. PS Industries may also require photographs of the alleged Product defect or return of the Product or part to a designated PS Industries location, freight prepaid. A return goods authorization must be received prior to the return of the Product or part. Please contact PS Industries 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 Industries determines to be covered by this Limited Warranty, PS Industries will replace or repair, at PS Industries' 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 Industries on its Product. No warranties or representations at any time made by any representative from PS Industries 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 Industries' liability to Owner or any other person or entity exceed the price paid to PS Industries for the defective Product. IN NO EVENT SHALL PS INDUSTRIES 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.

Rev. 011221











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