



EZ Way, Inc.

# Service Manual

## Classic Stand<sup>®</sup>



EZ Way, Inc.

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## Stand Maintenance

- The Classic Stand® shall be maintained by competent staff according to the maintenance checklist provided.
- The EZ Way Stand should be cleaned bi-annually at minimum with a hospital grade disinfecting cleaner. The Classic Stand® should not be immersed in cleaning solutions, and solvents and abrasive chemicals should not be used.



**Caution:** The Classic Stand® must be powered off and unplugged from the wall power outlet prior to cleaning. Ensure that the Classic Lift is completely dry before reconnecting to wall power outlet.



**Warning:** Do not attempt to service the Classic Stand® while it is in use, serious injury could result.

- The Classic Stand® shall have a minimum anticipated life of 10 years of use.
- The Classic Stand® harness (or other accessories) shall have a minimum anticipated life of 1 year of use.
- Dispose of waste products in accordance with state and local laws. EZ Way recommends recycling when possible.
- Please refer to this manual for troubleshooting information. If this does not quickly resolve the issue, stop the procedure and contact EZ Way for further instruction.
- Removal of the power cord connection from the wall outlet isolates the internal circuits from the supply mains.

## Stand Service

- The Classic Stand® shall be serviced and repaired by a qualified EZ way personnel or biomed technician. Contact an EZ Way representative for further instructions.
- EZ Way will make available on request circuit diagrams, component part lists, descriptions, calibration instructions, or other information that will assist service personnel to repair those parts of equipment that are designated by EZ Way as repairable by service personnel.
- This manual includes replacement instructions for components which are replaceable by service personnel. Contact EZ Way Service for information regarding items not covered in this manual.



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# Specifications

**Model:** S400C1  
**Capacity:** 400 lbs.  
**Weight:** 126 lbs.  
**Protection class, Controller:** IPX5  
**Protection class, Handset:** IPX6  
**Internal battery charger:** Switch Mode Power Supply  
**Input:** 100 – 240 VAC (50/60 Hz)  
**Charge time:** 4-5 hrs.  
**Power cord:** NEMA1  
 Medically approved

**Motor Control:** Electronic soft-start and soft-stop

**Controls:** Hand-held remote

**Safety Features:**

- Emergency down function
- Manual down function
- Acoustic battery alarm at approx. 50% battery capacity
- Electronic overload protection (EOP)

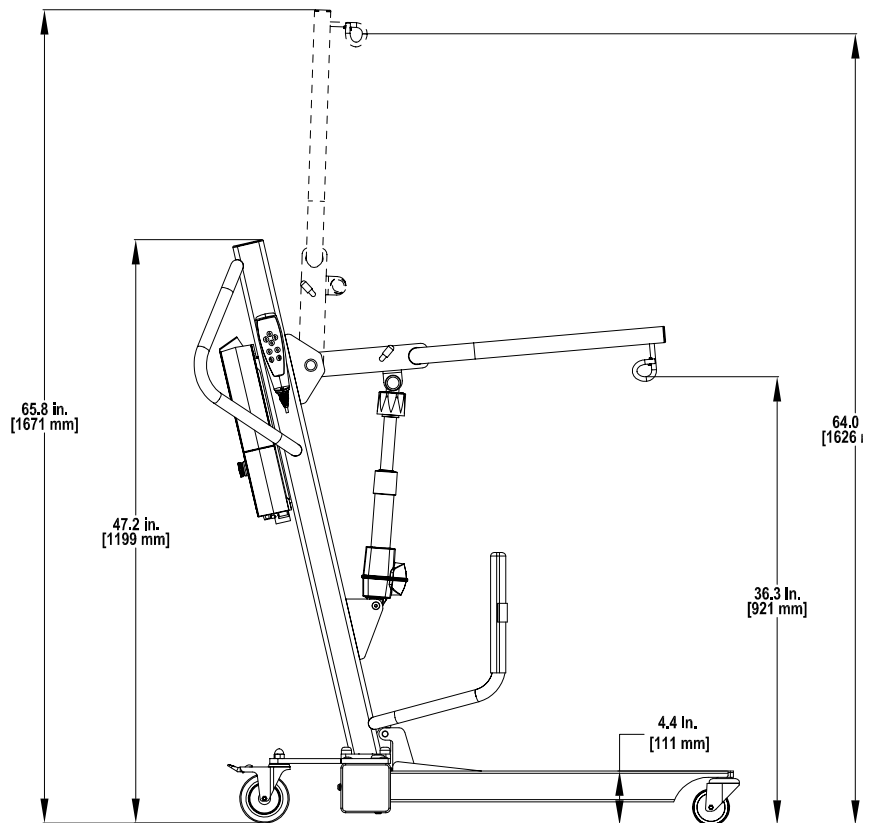
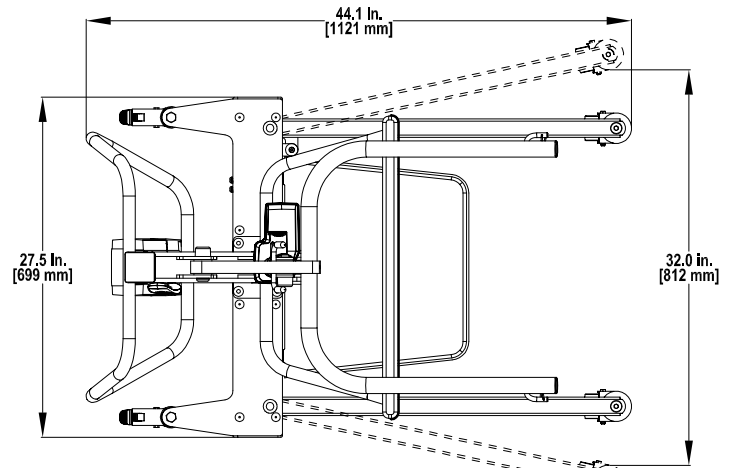
**Duty cycle:** Max. 10% or 2 min. continuous use then 18 min. without use

**Approvals (Controller/Actuator only):**

**IEC60601-1:2005 3rd edition**

**ANSI / AAMI ES60601-1:2005 3rd edition**

**CAN / CSA-22.2 No 60601-1:2008**

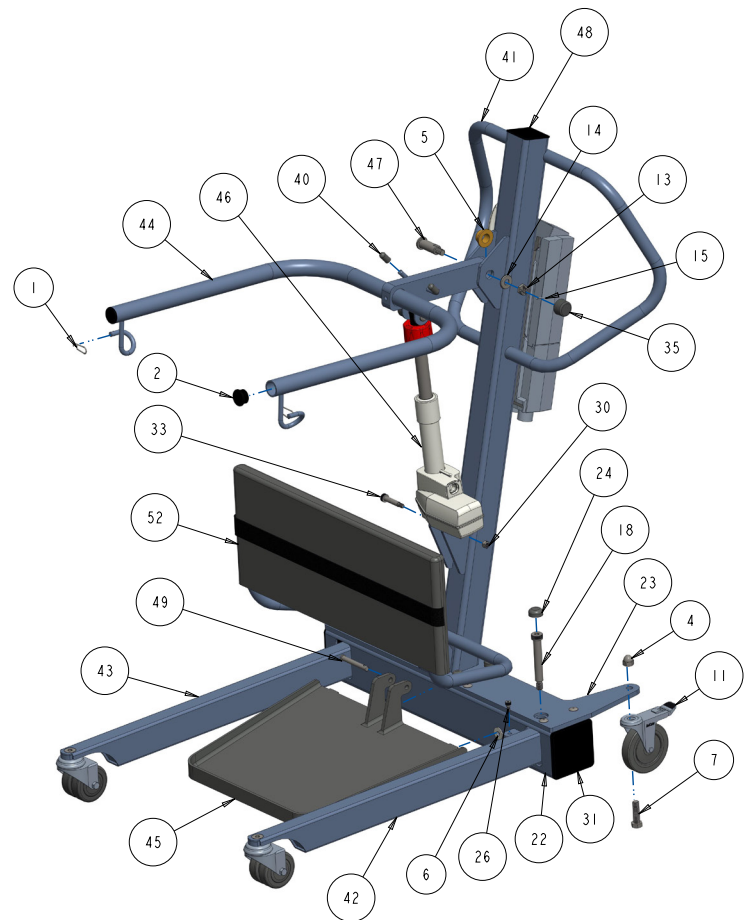




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# Parts Breakdown

ITEM NO	PART NUMBER	QTY	DESCRIPTION
1	11014	2	SAFETY SPRING
2	11565	2	STAND ARM CAP
3	11763	4	MAST TO BASE SCREW
4	11788	2	REAR CASTER NUT
5	11809	2	BRONZE BUSHING
6	11974	2	FOOT PLATFORM NYLON WASHER
7	12043	2	REAR CASTER BOLT
8	12048	2	FRONT CASTER NUT
9	12133	1	TOP ACTUATOR PIN NUT
10	12147	1	CUSTOM WASHER 3/8
11	12247	2	REAR CASTER
12	12861	3	CONTROLLER BRACKET SCREW
13	12991	1	STAND ARM NUT
14	12998	1	CUSTOM WASHER .484
15	12999	2	COTTER PIN
16	13705	4	MAST TO BASE WASHER
17	14500	2	FRONT CASTER
18	14662	2	LEG PIVOT BOLT
19	14705	2	FRONT CASTER BOLT
20	16101	1	LEG SPREAD LINKAGE BAR
21	16102	1	LEG SPREAD ACTUATOR BRACKET
22	16105	1	BASE
23	16108	1	BASE PLATE
24	16109	2	LEG PIVOT BOLT CAP
25	16110	9	HUCK FASTENER
26	16111	2	LEG SPREAD LINKAGE BAR SCREW
27	16112	1	LEG SPREAD ACTUATOR
28	16115	2	LEG SPREAD ACTUATOR BRACKET WASHER
29	16116	2	LEG SPREAD ACTUATOR BOLT
30	16117	3	M8 LOCKNUT
31	16118	2	BASE TUBE CAP
32	16119	4	MAST TO BASE CAP
33	16123	1	BOTTOM ACTUATOR PIN
34	16124	1	TOP ACTUATOR PIN
35	16125	2	PIN CAP
36	16126	1	CONTROLLER
37	16127	1	CONTROLLER BRACKET
38	16130	1	HAND SET
39	16131	1	BATTERY PACK
40	16134	2	STAND ARM ANCHOR CAP
41	16141	1	CLASSIC STAND MAST WELDMENT
42	16142	1	STAND LEG, LEFT
43	16143	1	STAND LEG, RIGHT
44	16144	1	CLASSIC SUPPORT ARM WELDMENT
45	16145	1	CLASSIC FOOT PLATFORM
46	16146	1	CLASSIC STAND ACTUATOR
47	16148	1	CLASSIC STAND ARM PIN
48	16149	1	MAST CAP
49	16150	1	SLIC PIN 2.5 USABLE
50	16151	2	SHIN PAD CAP
51	50615	2	LEG SPREAD ACTUATOR BRACKET SCREW
52	500304	1	SHIN PAD FABRIC

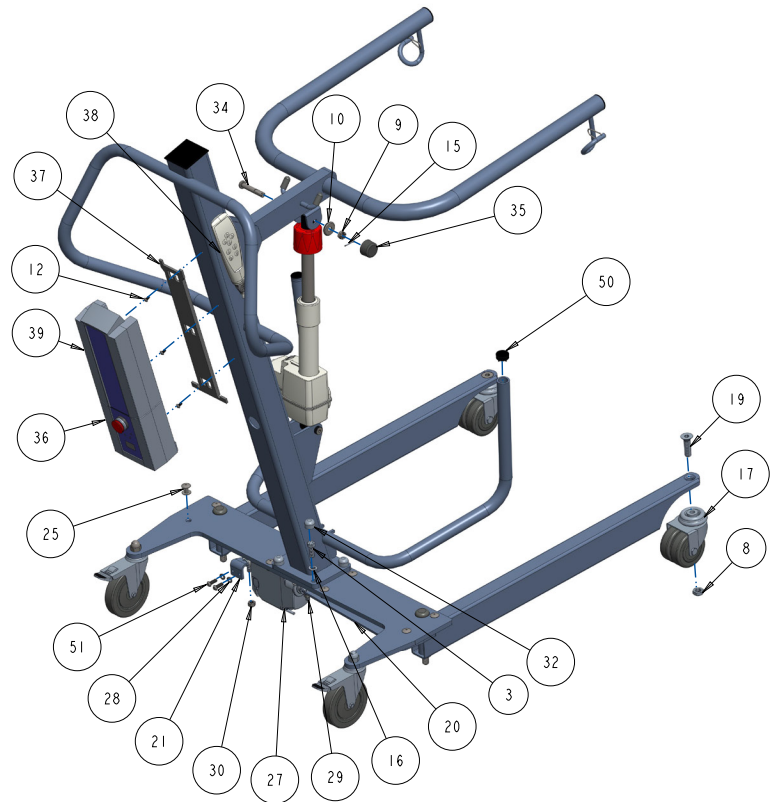




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# Cleaning and Disinfection / Emergency Down

## Cleaning and Disinfection

- The stand may be cleaned with mild detergent or cleaner. Take care when applying cleaner around the control box to ensure liquid does not enter the control box.
- When using hospital grade disinfectants, test a small area prior to applying the cleaner to the lift.

## Emergency Down Operation

The Classic Stand<sup>®</sup> controller features an emergency down button located below the red emergency stop switch.

To activate the emergency down function, use a small object to push the black button until the down function is activated. Release the button to stop the movement.



To use the manual down function, turn the red collar on the actuator shaft in a clockwise motion as indicated by the arrows on the collar.

Continue to turn the collar until the sling can be safely unhooked from the lift.

Call EZ Way Service for assistance.





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## Troubleshooting

If the Classic Stand<sup>®</sup> fails to operate, check the following items:

1. Emergency stop switch: Rotate the red button clockwise to ensure the switch is not activated.
2. Battery: Make sure you have a battery with sufficient charge to operate the lift.
3. Connections: Check the connections to the control box. Make sure each cord is fully seated by pushing them into the control box.

If the above remedies do not restore the lift, call EZ Way Service at **800-627-8940**. It is helpful to have the lift near you when you call.





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# Lift Actuator Replacement

1. Unplug the stand actuator cord from the control box.
2. Remove the plastic cap that covers the nut on the top actuator pin.
3. Remove cotter pin, nut, and washer from the top actuator pin. Retain the pin, washer, and nut for reinstallation. (Fig A)
4. While supporting the arm, remove the top actuator pin and gently lower the actuator. Raise boom and allow it to rest against mast.
5. Remove the nut on the lower actuator pin. Set the nut and pin aside for reinstallation with the new actuator.
6. While supporting the actuator, remove the lower actuator pin and remove the actuator.
7. Hold the replacement actuator in place with the lower end lined up in the lower mounting bracket.
8. Insert the pin through the bracket and actuator. (Fig B)
9. Install the nut on the pin and tighten it securely.
10. Plug the actuator into the control box and extend the actuator approximately 6".
11. Rotate the arm into position and line up the top of the actuator with the bracket on the arm. Insert the pin through the bracket and actuator. Line up the flat side of the pin with the "D" shaped hole in the bracket.
12. Install the washer with the flat side facing out. Install nut and tighten securely.
13. Line up a slot on the nut with the hole in the pin and insert a new cotter pin through the assembly. Bend the ends of the cotter pin around the nut and install the plastic cap over the assembly.
14. Test the actuator by extending it completely then retracting it. While retracting, test the anti-pinch feature by holding up on the arm while it is moving in the down direction.
15. The stand is now ready to be returned to service.



(Fig A)



(Fig B)



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# Leg Spread Actuator Replacement

1. Lower the arm completely then unplug the leg spread actuator cord from the control box. The leg spread actuator is plugged into the #2 port. (Fig D)
2. While a helper steadies the mast and arm assembly, remove the four bolts at the base of the mast.
3. Gently lower the mast onto its side, allowing the lower end of the mast to rest on top of the base. (Fig E)
4. Gently pull the actuator cord out of the mast. (Fig F)
5. Remove the black cap from the left end of the base tube.
6. The hole in the top and bottom of the base allows access to remove the actuator pin from the leg spreader bar. (Fig G)
7. Remove the two socket head screws from the leg spread adjustment slot. (Fig H)
8. Remove the actuator from the end of the base while feeding the actuator cord through the hole in the top of the base.
9. Remove the actuator mounting bracket from the actuator and reinstall it on the new actuator. Tighten the actuator pin securely.
10. Feed the actuator cord through the base and out through the hole in the top of the base. (Fig I)
11. Insert the actuator in the base tube and line up the rod end with the hole in the leg spread bar.
12. Reinstall the actuator pin through the actuator and leg spread bar and tighten it securely.
13. Align the holes in the actuator mounting bracket with the leg spread adjustment slot. Reinstall the socket head screws through the slot but do not tighten them. (Fig J)
14. Feed the actuator cord into the mast and out the hole at the bottom of the control box.
15. With a helper, raise the mast onto the base and align the base of the mast with the holes in the base plate. Reinstall the four bolts to securely fasten the mast to the base plate.
16. Plug the actuator cord into the control box and use the hand control to adjust the leg spread to the closed position.
17. Manually move the legs so they are in the closed position and tighten the socket head bolts in the leg spread adjustment slot.
18. Test the function by using the hand control to adjust the legs to the fully open position and back to the closed position.
19. Reinstall the plastic caps and return the stand to service.



(Fig D)



(Fig E)



(Fig F)



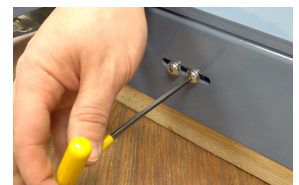
(Fig G)



(Fig H)



(Fig I)



(Fig J)



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## Control Box Replacement

1. Remove the battery pack from the control box.
2. Unplug the power cord, hand control cord, and both actuator cords from the control box. Note which ports each of the actuator cords are plugged into.
3. Remove the mounting screw that fastens the control box to the mounting bracket. (Fig K)
4. Lift the control box off of the mounting bracket.
5. Install the new control box, bottom first onto the mounting bracket. (Fig L)
6. Reinstall the mounting screw and tighten securely.
7. Plug the power cord, actuator cords, and hand control cord into their respective ports on the bottom of the control box.
8. Reinstall the battery onto the control box and test all operations.
9. The stand is now ready to be returned to service.



(Fig K)



(Fig L)



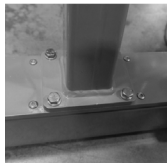
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# Preventive Maintenance

The Classic Stand® requires a minimum of servicing to keep it in good working order. Nevertheless, it is important that certain basic checks be periodically made by maintenance staff to ensure on-going safety throughout the life of the device.

The manufacturer suggests that the following components and operating points be scheduled for inspection at intervals not greater than six months. Any detected deficiency must be rectified before the stand is put back into service.

- 1 Check all bolts to ensure they are tight.** Remove covers as necessary for inspection.



BASE



PIVOT



REAR WHEEL



FRONT WHEEL

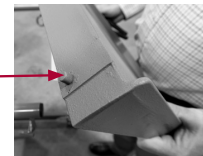
- 2 Check arm to mast pivot bolt** by removing plastic cap to assure nut is tight and cotter pin is in place. If plastic cap is missing order replacement.



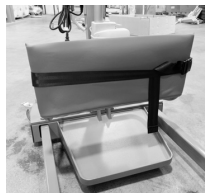
ARM TO MAST

- 3 Foot platform assembly pins need to be checked to assure they have not pushed in and still engage into base.**

PIN ON FOOT PLATFORM



- 4 Inspect shin pad for tears or rips.**



- 5 Safety clips need to be checked** to make sure they are installed correctly, not missing or torn.



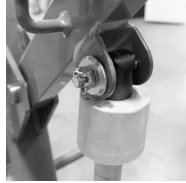
PO Box 89, 710 E. Main. Clarinda, IA 51632 | 1-800-627-8940 | sales@ezlifts.com



- 6 Check mounting bolts of actuator** top and bottom. Pay particular attention to top bolt hole for elongation.



ELONGATED



TOP OF ACTUATOR



BOTTOM OF ACTUATOR



**Check actuator for the following.**

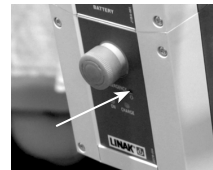
- Inspect the plastic housing for any dents or cracks.
- Inspect the cables to see if they have been cut or pinched.
- See if the actuator appears deflected when fully extended under load.
- Verify that the mounting points and welds do not have any cracks or other defects.
- Apply a heavy grease to actuator mounting pins as needed.
- Verify that the inner or outer tubes do not have any dents, dings, or large scratches in them.

**Contact EZ Way's Service Department if the actuator shows any signs of the issues listed above.**

- 7 At one year intervals, attach a load equivalent to or within 100 lbs of the rated capacity of the stand to the unit.** Do not exceed the rate weight capacity. Raise and lower the load with the lift. Listen for any unusual noises while operating the unit. With the test load applied to the lift, check all structural welds for any signs of stress or fatigue cracks. If any unusual noises or cracks are found, stop using the stand and call the EZ Way Service Department immediately!

- 8 Test the Emergency Stop Switch.** If the switch does not stop the stand when activated, call the EZ Way Service Department immediately!

- 9 Perform a functional test of the emergency lowering feature** on the controller.



- 10 Test manual lowering function.**

- 11 Perform a functional test of the anti-pinch feature** of the stand actuator. This feature turns the actuator off when lowering the stand arm if an obstruction is encountered.

- 12 Check all the wheels and brakes** to make sure they are functioning properly. Hair that gets picked up and wrapped in between wheels should be cleaned out so that the stand will roll easily.

- 13 Do a visual check** for any damaged, missing or loose parts. Repair as necessary.

- 14 Check the entire harness for damage or wear**, including the loops and stitching. If damage or wear is present, discard the harness and order a new one. It is recommended that harness be replaced after one year or if the sling shows any sign of damage or wear.

- 15 When cleaning the stand, do not spray any liquid cleaners directly onto the front panel graphics.** To clean, use a glass cleaner such as Windex, dampen a cloth and wipe the panel.

**IMPORTANT NOTICE**

It is the responsibility of the purchaser to ensure that regular maintenance inspection is conducted on this device by competent staff.

DATE COMPLETED: \_\_\_\_\_

COMPLETED BY: \_\_\_\_\_

PASS / FAIL: \_\_\_\_\_

MODEL & SERIAL NO.: \_\_\_\_\_

EQUIPMENT PURCHASE DATE: \_\_\_\_\_



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## Warranty Information

**Chassis:** 10 Years

**Components:** 3 Years

**Accessories:** 6 Months

EZ Way Products are manufactured with the highest quality components. EZ Way, Inc. warrants that all new equipment, with normal use and service, will be free from defects in material and workmanship for a period of (see above) from the date of purchase by the original purchaser excluding the battery. Normal wear and tear, injury by natural forces, user neglect and purposeful destruction are not covered by this warranty.

Warranty service must be performed by the manufacturer at 710 E. Main St., Clarinda, Iowa, or by an authorized repair center at their location. On occasion, EZ Way, Inc. may authorize in-house repairs, but these repairs MUST be preapproved to avoid invalidation of the warranty. Services covered under warranty include any labor that takes place at EZ Way, Inc. Cost of labor incurred while installing the warranty part at the place of ownership is not covered by this warranty. EZ Way, Inc.'s obligation is limited to the replacement of parts that have been returned and are determined by EZ Way, Inc. to be defective.

**THE PROVISIONS OF THIS WARRANTY CLAUSE ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, AND OF ALL OTHER OBLIGATIONS OR LIABILITIES ON EZ WAY, INC.'S PART AND IT NEITHER ASSUMES OR AUTHORIZES ANY OTHER PERSON TO ASSUME FOR EZ WAY, INC. ANY OTHER LIABILITIES IN CONNECTION WITH THE SALE OF SAID ARTICLE. IN NO EVENT SHALL EZ WAY, INC. BE LIABLE FOR ANY SUBSEQUENTIAL OR SPECIAL DAMAGES. ANY MISUSE, IMPROPER INSTALLATION OR TAMPERING SHALL VOID THIS WARRANTY.**

Your warranty was registered automatically by EZ Way, Inc. at time of purchase.