



EZ Way, Inc.

*"Your Total Patient Lift Solution"*

# **EZ Way Smart Lift®** **500, 600 & 1,000 lb.** **Capacities** **Operator's Instructions**



EZ Way, Inc.  
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**⚠WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Form 2-174  
Rev. 8/10/18

The EZ Way Smart Lift® was designed primarily to lift patients from the bed, chair , toilet and floor. The maximum lifting capacity is located by the model and serial number of your lift. The EZ Way Smart Lift® was designed to be operated safely by one person. However, with some patients it is best to use two people.

For safe operation of the EZ Way Smart Lift®, operators should watch the training video, read through this manual, complete the competency checklist, and practice on fellow staff members before use with patients.

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## Safety Notes

The EZ Way Smart Lift® was designed primarily to lift patients from the bed, chair , toilet and floor.

For safe operation of the EZ Way Smart Lift®, operators should watch the training video, read through this manual, complete the competency checklist, and practice on fellow staff members before use with patients.

The EZ Way Smart Lift® comes in 500, 600, and 1,000 lb. weight capacities. All washable EZ Way slings are capable of bearing a 1,000 lb. weight load, but must only be used to hold the amount of weight dictated by the EZ Way Smart Lift® capacity. The maximum lifting capacity of each EZ Way Smart Lift® is located on the opposite side of the lift mast from the battery receiver (See FIG. 1) by the model and serial number of the EZ Way Smart Lift® and on the side of the control box. (See FIG. 2)

Do not modify the sling design in any way. Please make sure the accessories used with each lift are appropriate for both the patient and the transferring situation and call EZ Way at 1-800-627-8940 if you have any questions.

EZ Way slings are made specifically for EZ Way Smart Lift®s. For the safety of the patient and caregiver, only EZ Way slings should be used with EZ Way lifts.

The wheels of the EZ Way Smart Lift® should never be locked when lifting or lowering a patient.

The EZ Way Smart Lift® was designed to be operated safely by one caregiver. However, depending on the situation, facility policy, and the patient's condition, two caregivers may be necessary.

All EZ Way equipment must be maintained regularly by competent staff according to the maintenance checklist provided.

These instructions should be kept with the EZ Way Smart Lift® at all times. Instructions can also be downloaded from EZ Way's website [www.ezlifts.com](http://www.ezlifts.com).

### **WARNING:**

**For safe operation of the EZ Way Smart Lift®, the lift must be used by trained personnel in accordance with the operator's manual, video and training checklist to avoid injury to patient.**

### **WARNING:**

**Do not push, pull, or use the actuator as a handle for moving the EZ Way Smart Lift®. Do not cover the actuator. Inspect regularly as directed in the maintenance checklist.**

### **WARNING:**

**Keep the area clear between the actuator and the mast.**

## LCD Display

The EZ Way Smart Lift® includes a built-in operator interface, backlit LCD (liquid crystal display) and key switches located on the front panel. This interface notifies the user of basic functions as well as provides diagnostic feedback from the unit.

### Basic Functions

The UP and DOWN keys located on the front panel, arrow keys on the hand control, and left and right toggle switches located on the sides of the control box can all be used to operate the EZ Way Smart Lift® boom in an up or down direction.

When an UP switch is pressed the display reads 'UP'.

When a DOWN switch is pressed the display reads 'DOWN'.

### Battery Status

When the EZ Way Smart Lift® is sitting idle the display shows the battery level. The battery level is shown as a bar graph. The fewer the bars displayed the lower the battery level.

When the battery level becomes low swap the battery with a fully charged battery. Regular battery charging will extend the life of your batteries.



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## LIMITED WARRANTY: Smart Lifts and Stands

Frame = 10 Years

Components = 3 Years

Batteries = 12 Months

Slings/Harnesses = 6 Months

EZ 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. 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 pre-approved 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.

## To operate the EZ Way Smart Lift® follow the steps below:

### Pre-operation check

Before operating the unit, complete a maintenance safety check for loose nuts and bolts and damaged parts. Also, ensure the sling is not ripped, frayed or showing signs of wear. EZ Way recommends all slings be replaced after one year, or at the first sign of wear. If the unit fails to operate, contact your maintenance person. If necessary, the maintenance person can call our service department at 1-800-627-8940. **NOTE: It is helpful for the maintenance person to be near the unit when making the service call.**

### Insert battery

Insert a fully charged battery pack into the battery receiver on the mast of the EZ Way Smart Lift®. (See FIG. 1)

### Turn unit on

Push the ON/OFF button. The EZ Way Smart Lift® will display a greeting message while several diagnostic functions are performed. The EZ Way Smart Lift® has a built-in timer that automatically shuts off the unit after a period of inactivity.

**NOTE: Push the ON/OFF button to power off the EZ Way Smart Lift®.**

The EZ Way Smart Lift® is operational when the battery charge level is showing on the screen. (See FIG. 2)

### Adjust the emergency stop button

The RED EMERGENCY STOP BUTTON must be in the UP position. The unit will not operate if the button is in the down position. If the button is in the DOWN position, the screen will indicate EMERGENCY STOP. Turn it in the direction of the arrow on top of the button to release it. (See FIG. 1)

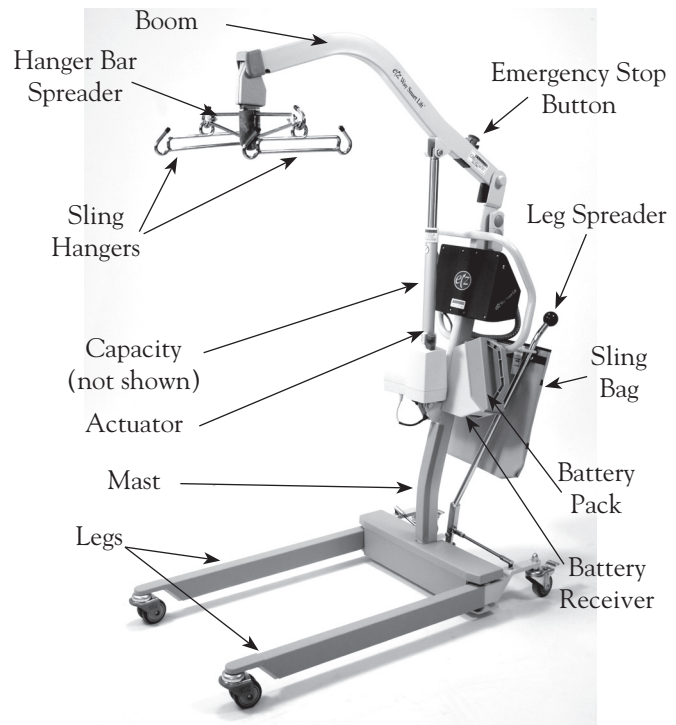


Figure 1

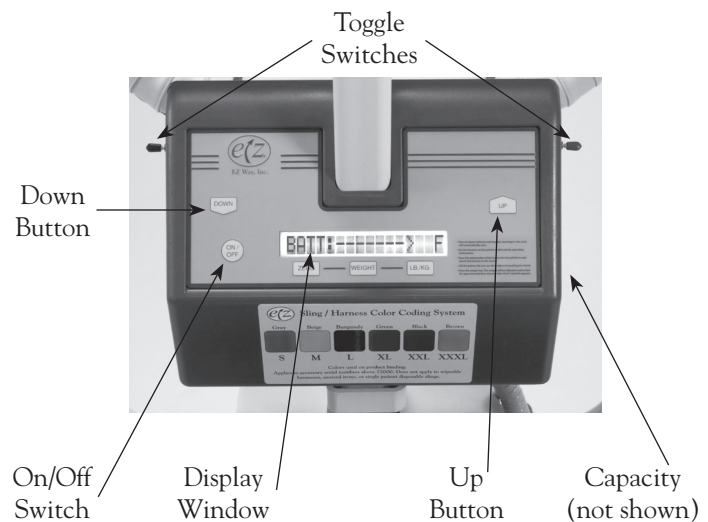
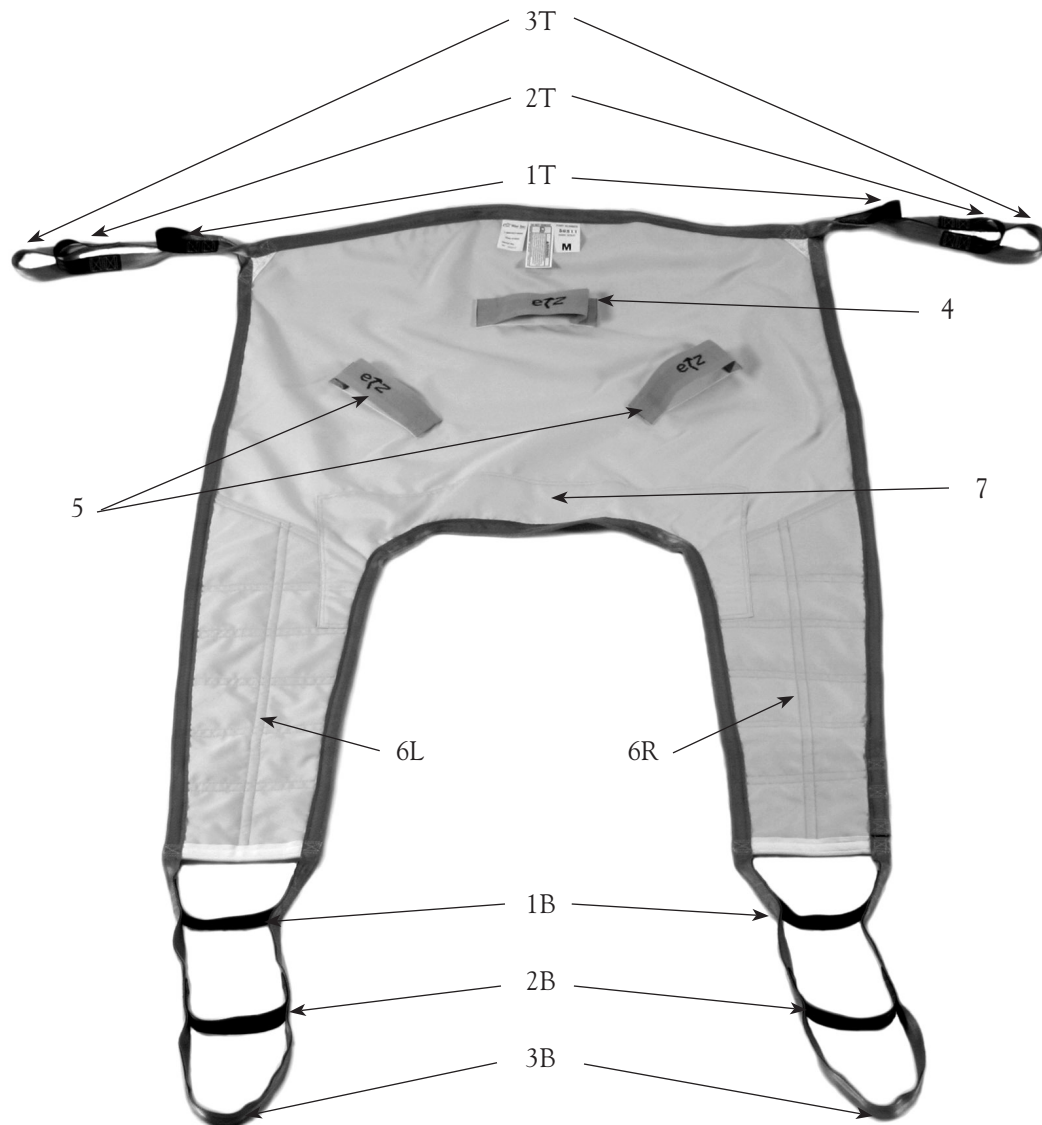


Figure 2

## Sling information and diagram

EZ Way Slings are designed to be applied or removed with a minimum amount of handling of the patient. As patients do vary in size, shape, weight and temperament, these conditions must be taken into consideration when deciding which EZ Way Sling is suitable for each patient's needs. There are a variety of slings available in various sizes. Please contact EZ Way with any questions regarding sling dimensions and sizes, or view them at [www.ezlifts.com](http://www.ezlifts.com)

We have used the Medium Deluxe Sling throughout the manual because it is the most commonly used sling. Wipeable and disposable slings are also available. To order slings call 1-800-627-8940.



**Figure 3**

1T – 1st Loop (shortest)  
2T – 2nd Loop (middle)  
3T – 3rd Loop (longest)  
4 – Center Handle  
5 – Side Handles  
6L – Left Sling Leg

6R – Right Sling Leg  
7 – Base of Sling  
1B – 1st Loop (shortest)  
2B – 2nd Loop (middle)  
3B – 3rd Loop (longest)



# Transferring patient from bed to chair, wheelchair, or toilet

## Step 1

### *Position sling under patient*

- 1) Log roll the patient on his/her side away from you. (See Figure 4)



**Figure 4 - Log roll patient**

- 2) Position the sling so the handles on the back of the sling are facing the mattress. Tuck half of sling underneath patient.
- 3) Using the center handle (4 on Figure 3 Sling Diagram) as a guide, center the sling on the patient's spine with the base of the sling approximately two inches below the base of the tailbone.
- 4) Log roll patient in opposite direction and pull rest of sling out the other side.
- 5) Lay patient on their back. Make sure the sling is centered beneath the patient.
- 6) Lift patient's left thigh and pull the left sling leg (6L on Figure 3 Sling Diagram) of the sling under patient's thigh. Then place excess sling leg over the top of the patient's left thigh.
- 7) Repeat above step for right thigh. (See Figure 5)



**Figure 5 - Place sling leg over patient's thigh**

NOTE: If the patient's legs are extremely rigid, it may work better to bring the left sling leg under the right thigh and the right sling leg under the left thigh instead of threading between the patient's legs. The patient must have good torso stability to use this method and the caregiver must be sure that the back of the sling is positioned properly behind the patient's back and under their tailbone to provide support. (The top of the sling must reach just above the patient's shoulders and the base of the sling should be 2 inches below their tailbone.)

## Step 2

### *Moving the lift to the patient*

- 1) Make sure there are no cords or other objects near the path of the lift or under or near the bed that could obstruct the wheels of the lift.
- 2) Do not lock the wheels of the EZ Way Smart Lift® when lifting or transferring patients.
- 3) Move the EZ Way Smart Lift® until the tip of the boom (green nose cone) is centered over the patient's torso.
- 4) Turn the hanger bar spreader so the two sling hanger bars are parallel to the patient's body and the sides of the bed.
- 5) Using the "Down" button, lower the boom so it is positioned a few inches over the body of the patient. The goal is to provide for ease of sling attachment (Step 3).

## Step 3

### *Attaching the sling to the lift*

- 1) Attach the loops nearest the patient's shoulders, to the hanger bar hooks of the lift nearest each shoulder using the same length and color of loop strap on each side. (See Figure 3 Sling Diagram)
- 2) Take the sling leg lying over the left leg, cross it over and attach it on the hook of the hanger bar located on the right side of the patient.
- 3) Next, take the sling leg lying over the right leg, cross it over and attach it on the hook of the hanger bar located on the left side of the patient using the same length and color of loop strap on each sling leg. (3B on Figure 3 Sling Diagram)
- 4) Make a final check of all four loop attachment points to ensure each loop is sufficiently attached to the respective hook of the hanger bars. Patient is now ready to be lifted. (See Figure 6)

NOTE: If you have gone under both legs with the sling legs for a rigid patient, bring the loops straight up along the outside of the legs and hook on the



**Figure 6 - Patient ready to be lifted**

longest loop. (3B on Figure 3 Sling Diagram)  
Crossing the legs as described in Step 3 is the most recommended procedure; caregivers must assess the condition of the patient to determine what method is appropriate.

#### **Step 4**

##### **Lifting the patient**

- 1) Push the UP button on the hand control to initiate the upward motion of the lift boom.
- 2) Continue the upward motion until there is tension on the sling legs, making sure all the loops on the sling are securely hooked on the hanger bars.
- 3) Lift the patient's knee and smooth out the sling under each of the thighs, if necessary.

NOTE: For patients who have soft or delicate skin, care must be taken to ensure the sling is smoothed out along the thigh. There may be instances when patients with extremely fragile skin will require a different sling, such as a multipurpose sling.

- 4) Continue lifting the patient so he/she is just high enough to clear the bed.

#### **Step 5**

##### **Transferring the patient**

- 1) Ensure there are no obstructions in the path of travel.
- 2) Maneuver the lift away from the bed.
- 3) During transfer, do not roll lift over obstructions or into objects that could create an imbalance of the lift. Only use the lift operator's handles attached to the mast to maneuver the lift at all times. Do not attempt to move the lift using the boom.

**WARNING:** Do not push, pull or use the actuator (motor) as a handle for moving the EZ Way Smart Lift®.

**WARNING:** Do not place any objects around the actuator (motor) or between the actuator and the lift mast

#### **Step 6**

##### **Lower patient into wheelchair, toilet or chair**

##### **ADJUST LIFT LEGS**

Using the spreader bar, (See Figure 1), adjust the legs of the lift to go around a wheelchair, toilet or chair.

- 1) Position the wheelchair under the patient and lock the wheels of the wheelchair. If transferring the patient to a chair or toilet, position the patient over the chair or toilet. Using the handles located on the back of the sling, position the patient so he/she is properly aligned to be lowered onto the chair, toilet or wheelchair.
- 2) Push the DOWN button on the hand control.
- 3) Stand behind the patient and hold onto the center handle located on the back of the sling. When the patient is nearly seated, gently pull up on the center handle to ensure the patient will be seated in an upright position. (See Figure 7)



**Figure 7 - Lowering into wheelchair**

- 4) When the patient's weight is supported by the wheelchair, chair or toilet, continue lowering the lift to release the tension on the loops.
- 5) Detach sling from hanger bar and move the lift away from the patient.

#### **Step 7**

##### **Remove sling**

- 1) Gently lift the patient's left knee, pulling the sling legs out from underneath the patient's thigh. Continue on right knee.
- 2) Lean patient slightly forward and grasp the side handles or the center handle, pulling the sling out from behind the patient.

# Transferring patient from chair, wheelchair, or toilet

## Step 1

### Position sling

- 1) Lean the patient forward several inches to place the sling behind the patient.
- 2) With the sling handles and washing labels facing the chair back, place the sling behind the patient, keeping the center handle of the sling centered on the patient's spine. Make sure the base of the sling touches the chair seat and is two inches below the tailbone. Make sure the top of the sling is above the patient's shoulders and lean the patient back in the chair. (See Figure 8)



Figure 8 - Place sling behind patient

- 3) Pull the legs of the sling along inside of the chair.
- 4) To set the sling properly, you must do the following: On the patient's right side, position your right hand between the patient's hip and the sling. With your fingers, push down on the edge of the sling so it touches the base of the chair seat. Next, grasp the bottom edge of sling leg with your left hand and pull with a tug towards you.
- 5) Lift the patient's left knee and with a tug, pull the leg of the sling under the hip and thigh.

Place the excess sling length over the left thigh. Repeat this procedure on the right side. This procedure will ensure the sling is under the patient's tail bone and behind his/her back, with the patient's weight evenly distributed on the sling. NOTE: Make sure all seams of the sling are smooth underneath the patient.

## Step 2

### Position EZ Way Smart Lift®

- 1) Make sure there are no cords or other objects near the path of the lift or under or near the bed that could obstruct the wheels of the lift.
- 2) Using the leg spreader bar, (See Figure 1), adjust the legs of the lift to go around the wheelchair, toilet or chair.
- 3) Do not lock the wheels of the EZ Way Smart Lift® when lifting or transferring patients.
- 4) Turn the hanger bar assembly so the two hanger bars are parallel to the patient's body.
- 5) Using the "DOWN" button, lower the boom until the tip of the boom (green nose cone) is in front of the patient's torso. The goal is to provide for ease of sling attachment (Step 3).

## Step 3

### Attach sling to the lift

- 1) Take the sling leg that is lying over the patient's left thigh and attach it to the right hook on the hanger bar. (See Figure 9)



Figure 9 - Attaching the sling

- 2) Take the sling leg lying over the right thigh and attach to the left hook on the hanger bar, again using the same length and color of loop strap on each side.
- 3) Attach the straps located near the patient's shoulders to the lift hanger bar hooks using the same length and color of loop strap on each side. Example: If you choose the shortest loop on the strap for the right shoulder, you must use the shortest loop on the strap for the left shoulder. (1T on Figure 3 Sling Diagram)



#### **Step 4**

##### ***Lifting the patient***

- 1) Push the UP button on the hand control to initiate the upward motion of the lift. Continue the upward motion until there is tension on the legs of the sling, making sure all the loops on the sling are securely hooked on the hanger bars. (See Figure 10)



**Figure 10 - Lifting the patient**

- 2) Smooth the sling legs under the patient's thighs with a slight pull on the outside seam of the sling legs, if necessary.
- 3) Lift the patient to the desired height (usually 2-3" above the chair).

#### **Step 5**

##### ***Transferring the patient***

- 1) Ensure there are no obstructions in the path of travel.
- 2) Pull or push the lift using the operator's handles on the lift mast. Maneuver the lift to a desired location.

#### **Step 6**

##### ***Lower the patient onto bed***

- 1) Raise or lower the patient to a height necessary to clear the bed. Move the patient over the bed.
- 2) Push the DOWN button on the hand control.
- 3) When the patient's weight is supported by the bed continue lowering the lift to release the tension on the loops. (See Figure 11)
- 4) Detach sling from the EZ Way Smart Lift® and move the lift away from the patient.



**Figure 11 - Lowering to bed**

#### **Step 7**

##### ***Remove sling***

- 1) Gently lift the patient's left knee, pulling the sling legs out from underneath the patient's thigh. Continue on right knee.
- 2) To remove the sling from under the patient, gently log roll the patient away from you, folding and tucking the near half of the sling under the patient. Log roll the patient in the opposite direction, allowing you to free the sling from beneath the patient. (See Figure 12)



**Figure 12 - Remove sling**

## Transferring patient from floor

EZ Way strongly recommends two caregivers complete the transfer when picking a patient up from the floor. Place a pillow under the patient's head. Follow same procedure used when lifting patient from bed (See page 6). Unless using an EZ Way Sling with Head Support, you may want to have a caregiver support the patient's head as he/she is raised, depending on his/her condition.

### Step 1

#### **Position lift**

Lift patient's legs, pushing lift forward. Keep both legs together, laying the patient's legs over either side of the base of the EZ Way Smart Lift®. **Note: While the previous instruction is the preferred patient positioning for picking up from the floor, the patient's legs may also straddle the mast or the patient's head may be inside the base and legs with the patient's legs positioned outward. No matter which position the patient is in, it's important to ensure the nose cone is centered directly above the patient's chest when conducting a lift.** (See Figure 13)



**Figure 13 - Nose cone positioning**

### Step 2

#### **Attach sling**

Follow same procedure used when lifting patient from bed (See page 6). You will, however, have to use the longest loops (3T) by the patient's shoulders and possibly the sling legs as well (3B).

### Step 3

#### **Lift patient**

Follow same procedure used when lifting patient from bed (See page 6). Unless using an EZ Sling with Head Support, you may want to have a caregiver support the patient's head as he/she is raised, depending on his/her condition. Important: Before lifting, make sure the sling is not snagged on any objects or beneath the casters or legs of the lift. The sling should be free from obstruction.

### Step 4

Follow same procedures used when transferring patient and when lowering patient to bed, chair or wheelchair. (See pages 7 & 9)

### Step 5

Follow same procedure used for removing sling. (See pages 7 & 9)

### **Head Support Slings**

Many sling styles are available with a head support option for patients with little or no head control.

### **Multi-Purpose Slings**

These slings are used primarily for above the knee amputees and people with large thighs and delicate skin.

### **Mesh Slings**

All designs are available in mesh for bathing purposes.

### **Turning and Repositioning Slings**

Available in various styles and fabrics, these slings are for use in turning patients from side-to-side or repositioning patients in bed.

### **Wipeable Slings**

These slings can be wiped down between patients or each use.

### **Single Patient Disposable Slings**

These slings are for single patient use and can be used for a period of not more than 10 days; then must be discarded. These slings are not washable and have a maximum lifting capacity of 660 lbs. for sizes S-XL and 1,100 lbs. for size XXL but must only be used to hold the amount of weight dictated by the lift capacity.

### **Belted Mesh Hygiene Slings**

These slings can provide additional assistance in toileting. They can only be used with patients with upper body strength, good muscle tone, and good torso stability.

### **Hip Slings**

These slings are for use with patients who must remain in a supine position during transfer, but whose legs will flex at the knees.

Other specialty slings are also available. Please call EZ Way at 1-800-627-8940 for details or check out our website [www.ezlifts.com](http://www.ezlifts.com).

## Sling laundering instructions

EZ Way slings are designed and manufactured to the highest possible performance specifications. They are constructed of high quality, durable, 100% synthetic fabrics and have been individually inspected before shipping to ensure the safety of the product. However, water washing temperature, detergents and disinfectants, patient incontinence, frequency of use, types and weights of patients, etc., all have an impact on the life expectancy of each product. Because of these factors, the continued integrity of the product is not guaranteed. The user must therefore examine the product to ensure its integrity before each use.

EZ Way offers a 6-month warranty on slings and harnesses and recommends replacement after one year or if the sling or harness shows any sign of damage or wear. All slings and harnesses, except for single-patient disposable slings and harnesses, are washable and are capable of bearing a 1,000 lb. weight load, but must only be used to hold the amount of weight dictated by the lift or stand capacity.

Users must accept full responsibility for checking the condition of all slings and harnesses before each and every use on a patient.

### EZ Sling and Harness Laundering Instructions

To get the longest life out of your product:

- 1) Do not bleach.
- 2) To prevent stains from setting, rinse 5 minutes in 80° – 100° F. Stains will set when temperature is over 105° F.
- 3) Washing temp. 160° F. maximum.
- 4) RINSE THOROUGHLY in 100° F. If high alkaline detergent (with pH greater than 11.0) is used, rinse twice.
- 5) Tumble dry, temperature 100° F. maximum. High heat will weaken the fabric.
- 6) Snap the buckle together before washing and drying. This will prevent any damage to the plastic buckle.
- 7) If available, use a laundry bag to wash and dry the harness.

**Note:** Wipeable sling and harness cleaning instructions are packaged with each sling/harness or they are available via the EZ Way website [www.ezlifts.com](http://www.ezlifts.com).

## Charging the EZ Way Smart Lift® battery

TWO battery packs and a UL Approved remote charging unit are included with each EZ Way Smart Lift® (See FIG. 14).



Figure 14

**NOTE:** When switching battery packs, always remember to place the discharged battery pack into the charging unit so it will be fully charged and ready for use.

If the battery indicator on the EZ Way Smart Lift® display window says “CHARGE BATTERY” or “SWAP BATTERY”, locate the remote charging unit and switch the depleted battery pack with the recharged battery pack.

**NOTE:** If the battery indicator reads “SWAP BATTERY”, the lift will go down, but not up.

The green light on the charging unit indicates the battery is fully charged; the red light indicates the battery is still charging. During the charging cycle, the lights may alternate from red to green. This is normal and should stop when the battery becomes fully charged.

The EZ Way Smart Lift® battery packs have a long life and are fully sealed requiring no maintenance other than routine charging. The EZ Way lift charging system will never overcharge the battery. The charging cycle is approximately 6-8 hours. For optimal battery life, charge batteries frequently.

Mounting holes are provided on the bottom of the charger to mount the unit securely to a stud in the wall.

## Emergency lowering procedure 500 lb. and 600 lb. Capacity EZ Way Smart Lifts®

- 1) Position patient over bed or chair.



- 2) Pull up on Emergency lowering handle one to three times and hold up.
- 3) Patient will slowly lower. To stop movement release handle.
- 4) Call EZ Way, Inc.'s Service department at 800-627-8940 for assistance.

## 1,000 lb. Capacity EZ Way Smart Lift®

- 1) Position patient over bed or chair.
- 2) Grasp red collar on shaft of actuator.
- 3) Turn collar clockwise to manually lower patient.



- 4) Call EZ Way, Inc.'s Service department at 800-627-8940 for assistance.

## Scale usage instructions

The EZ Way Smart Lift®s do not require zeroing of the slings and has a weight-lock feature.

- 1) Turn on the EZ Way Smart Lift® without anything else touching it, including the sling. The scale will automatically zero.
- 2) Apply the sling on the patient and unit as directed in the Operating Instructions.
- 3) Raise the patient. Be sure no other object is touching the lift.
- 4) Press the weight key. The lift will display the weight, and when the = sign changes to a \*, the weight will be locked in. The weight will appear on the display for four minutes unless the unit is turned off. The scale automatically deducts 1.5 lbs. for the sling weight.
- 6) To weigh another patient, repeat steps two through four.

**NOTE: The ZERO key may be used to zero out the scale by pressing the button between weights, however this step is optional. The scale can calculate weight in both pounds and kilograms. Push the lb./kg key to select the unit of measurement desired.**

## Recall last weight

If the EZ Way Smart Lift® is on but has not been used for 4 minutes or has been shut off the last weight reading display clears. To recall the last weight taken:

Press and hold the DOWN key followed by the WEIGHT key.

The weight will be displayed with a “#” symbol indicating that the weight is recalled.

**NOTE: Lift may lower if the time between depressing buttons isn't immediate.**



# EZ Way Smart Lift® Safety & Maintenance Checklist

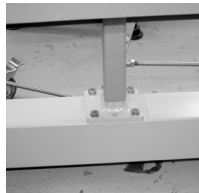
The EZ Way Smart Lift® requires a minimum of servicing to keep it in good working order. Nevertheless, it is important that certain basic checks be periodically made by maintenance staff to ensure on-going safety throughout the life of the device.

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 lift is put back into service.

- 1) Check wear of hanger assembly bushing by moving hanger assembly up and down. If hanger assembly moves up and down and the thickness of 2 quarters can be inserted between hanger assembly and load cell the hanger assembly needs to be replaced.



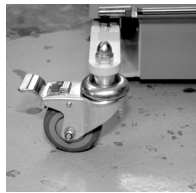
- 2) Check all bolts to ensure they are tight.



BASE



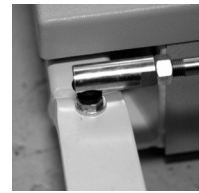
PIVOT



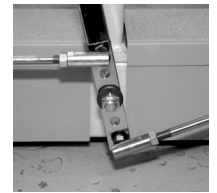
REAR WHEEL



FRONTWHEEL



LINKAGE



SPREADER

- 3) Check boom to hanger assembly pivot bolt, peel rubber back to assure nut is tight and cotter pin is in place. Check boom 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.



BOOM TO HANGER



BOOM TO MAST

- 4) Check the point where sling hanger and hanger spreader bar meet. If excessively worn, replace the bushings immediately. The hanger spreader and sling hanger wear points need to be checked for wear. If hooks appear worn, call EZ Way for instructions.



BADLY WORN

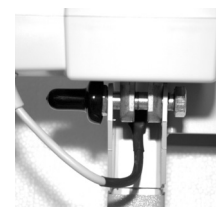
- 5) Check mounting bolts of actuator top and bottom. Pay particular attention to top bolt hole for elongation.



ELONGATED



TOP OF  
ACTUATOR



BOTTOM OF  
ACTUATOR



Check actuator for the following.

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

Contact EZ Way's Service Department at 1-800-627-8940 if the actuator shows any signs of the issues listed above.

- 6) Test the Emergency Stop Switch. If the switch does not stop the lift when activated, call the EZ Way Service Department immediately!
- 7) Perform a functional test of the emergency lowering feature of the lift actuator if it is so equipped.
- 8) Perform a functional test of the anti-pinch feature of the lift actuator. This feature turns the actuator off when lowering the lift boom if an obstruction is encountered.
- 9) 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 lift will roll easily.
- 10) Do a visual check for any damaged, missing or loose parts. Repair as necessary.
- 11) Check the entire sling for damage or wear, including the loops and stitching. If damage or wear is present, discard the sling and order a new one. It is recommended that slings be replaced after one year or if the sling shows any sign of damage or wear.
- 12) Cleaning the lift: Do not spray any liquid cleaners directly onto the front panel graphics. To clean, use a glass cleaner or mild cleaning solution, dampen a cloth and wipe the panel. To clean the body of the lift, use standard hospital-grade germicidal cleaning products.
- 13) At six month intervals, attach a load equivalent to the rated capacity of the lift to the unit. 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 lift and call the EZ Way Service Department immediately!

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### **\*\*IMPORTANT NOTICE\*\***

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

# Customer settings summary sheet

## Guide to main functions and keys

Menu list	Description
Inspection Reminder	Enable/disable, Occurs every 30 days
Inspection Complete	Resets 30-day counter
Overweight Counts	Counts occurrences of lifting beyond a unit's rated capacity, available on units with scale
Actuator Minutes	Actuator usage counter, should be reset upon actuator replacement
Actuator Overload Counts	Counts occurrences of actuator overloads, should be reset upon actuator replacement
Lift/Stand Total Minutes	Stand/Lift usage counter in minutes
Lb./Kg Default Setting	Sets default for weight unit of measure

## Navigating through menus key

Scrolling to change menu item	UP/DOWN Keys
Key to enter data	Right Toggle Switch
Key to exit menu	Left Toggle Switch

Main Functions	Key Combination
ON/OFF	Turns unit on and off
Weight Recall	DOWN + Weight
Customer Settings Menu	DOWN + UP – hold 5 seconds
UP	Used to raise the EZ Way Smart Lift® boom upward
DOWN	Used to lower the EZ Way Smart Lift® boom
Zero	Used to zero out the scale
Weight	Used to take weight readings on units with scale
LB/KG	Switches weight reading between pounds and kilograms

## Diagnostic messaging

### Actuator Overload

When an actuator overload occurs the EZ Way Smart Lift® computer records the event to protect the unit's components, and an 'ACTUATOR OVERLOAD' message will display. An event count is stored in the Customer Settings menu under 'Actuator Overload Counts'. This read-only count can be accessed at any time. Possible causes of actuator overload include lifting a patient that is heavier than the rated capacity of the unit, if the Smart Lift is obstructed by another object during lifting or mechanical failure occurs (internal actuator binding, etc.). In the event of an actuator overload, the EZ Way Smart Lift® will only operate in the DOWN direction.

When the actuator overload count is greater than 4, a fault message will display when the unit is turned on, reading 'ACTUATOR OVERLOAD...CALL EZ WAY SERVICE'. When this message appears call the EZ Way Service Department at 1-800-627-8940.

### Weight Overload – Available for EZ Way Smart Lift® with Scale

When an UP or DOWN command is executed the circuit board monitors weight readings from the scale load cell. If the weight measured is higher than the rated capacity of the EZ Way Smart Lift® the control will recognize this condition and a 'WEIGHT OVERLOAD' message will display. An event count is stored in the Customer Settings menu under 'Weight Overload Counts'. This read-only count can be accessed at any time. The weight overload may result from lifting a patient that is heavier than the rated capacity of the unit, if the Smart Lift is obstructed by another object during lifting or a scale load cell failure occurs.

To override a 'WEIGHT OVERLOAD' press the DOWN key. The EZ Way Smart Lift® will only operate in the DOWN direction during a weight overload. When the weight overload count is greater than 4 a fault message will display when the unit is turned on. The message reads 'WEIGHT OVERLOAD...CALL EZ WAY SERVICE'. When this message appears call the EZ Way Service Department at 1-800-627-8940.

## Duty Cycle Fault – Helping to Protect EZ Way Smart Lift® Actuator

In the unlikely event the EZ Way Smart Lift® has been run to the extent that it exceeds its duty cycle, the following message will appear; 'ACTUATOR DUTY CYCLE FAULT...COOLING'.

When this fault occurs the lift can only be lowered. This safety feature has been added to maximize the life of your unit.

## LCD display menus

EZ Way Smart Lift®s include a built-in menu system that provides customer feedback on various functions. The information below describes how to access and navigate through the Customer Settings menu.

**NOTE:** In this section, the UP and DOWN operations refer specifically to usage of the front panel UP and DOWN buttons.



**NOTE:** The EZ Way Smart Lift® will not raise or lower while in the Customer Settings menu.

### Entering the Customer Settings menu

After the unit has been turned on, press and hold the DOWN key followed by the UP key, holding both keys for 5 seconds.

To back out of the Customer Settings menu hit the left toggle switch.

### Navigating through menus

- 1) Pressing the UP or DOWN front panel keys will allow users to move through the menu items (also described as 'scrolling' below).
- 2) Pressing the Right Toggle Switch (also described as 'enter' below) will enter into a menu selection.
- 3) Pressing the Left Toggle Switch (also described as 'exit' below) key will exit the menu selection.

### Changing parameter values

- 1) Pressing the UP or DOWN front panel keys will change various parameters found in the Customer Settings menu.
- 2) Pressing the Right Toggle Switch will lock the parameter into memory.
- 3) Pressing the Left Toggle Switch will back out of the parameter without saving the selection.



## CUSTOMER SETTINGS MENU FUNCTIONS

Within the Customer Settings menu there are several functions that provide customer feedback. The functions include an optional inspection reminder, lift usage measured in minutes, and diagnostic information. Below is a description of each function.

### Inspection Reminder – Optional

**NOTE: A battery must be inserted in the unit at all times for the inspection reminder to be accurate.**

The Inspection Reminder function tracks the last inspection occurrence. When the duration of time since the last inspection exceeds 30 days, a reminder message will appear when the unit is turned on. The purpose of the inspection reminder is to notify the user that the EZ Way Smart Lift® needs to be inspected using the EZ Way Safety & Maintenance Checklist form included on pages 13 - 14. When the inspection is complete the reminder can be reset in the Customer Settings menu as described below:

- 1) To enable/disable the Inspection Reminder enter the Customer Settings menu as described on page 13.
- 2) Press the right toggle switch to enter.
- 3) Scroll to Inspection Reminder using the UP and DOWN keys on the controls.
- 4) Press the right toggle switch to enter.
- 5) Scroll to choose Yes or No.
- 6) Press the right toggle switch to enter.
- 7) Press the left toggle switch twice to exit.

### Inspection Complete

If 'INSPECTION OVERDUE' appears when the EZ Way Smart Lift® is turned on, inspect the unit following the EZ Way Safety & Maintenance Checklist'. The EZ Way Smart Lift® will continue to operate normally.

Once inspection is complete, enter the Customer Settings Menu as described on page 13.

- 1) Press the right toggle switch to enter.
- 2) Scroll using the UP and DOWN keys to Inspection Complete.
- 3) Press the right toggle switch to enter.
- 4) Scroll to choose Yes.
- 5) Press the right toggle switch to enter.
- 6) Press the left toggle switch twice to exit.

### Overweight Counts – Available on EZ Way Smart Lift® with scale

The Overweight Counts function tracks weight overload occurrences. When a weight overload occurs the Overweight Counts register increments by one.

### Actuator Minutes

The Actuator Minutes function tracks the accumulated amount of raising and lowering time of the actuator by the minute. With each minute of runtime the Actuator Minutes register increments by one. This read-only information provides accurate customer feedback of EZ Way Smart Lift® usage within the facility and can be a valuable tool in monitoring a safe patient handling program. In the event of an actuator replacement the Actuator Minutes register can be reset.

### Actuator Overload Counts

The Actuator Overload Counts function tracks any actuator overload occurrences. When an actuator overload occurs the Actuator Overload Counts register increments by one. Potential causes of an actuator overload include accidental lifting of the EZ Way Smart Lift® against an obstruction, lifting a patient that is heavier than the rated capacity of the unit, or mechanical failure (internal actuator binding).

### Lift/Stand Total Minute Usage Count

The Actuator Total Minutes function tracks the accumulated amount of raising and lowering time of the unit. The Lift/Stand Total Minutes is not reset when an actuator is replaced. This read-only information provides accurate customer feedback of EZ Way Smart Lift® usage for the entire life of the unit.

# EZ Way Smart Lift® Competency Checklist

Purpose: To assist in the proper training of operating the EZ Way Smart Lift®.

Staff Name: \_\_\_\_\_ Date: \_\_\_\_\_ Observed by: \_\_\_\_\_

Yes No

## 1. EZ Way Smart Lift® Pre-Operation Check

- |                          |                          |   |
|--------------------------|--------------------------|---|
| <input type="checkbox"/> | <input type="checkbox"/> | a) Demonstrate how to turn EZ Way Smart Lift® on/off.                           |
| <input type="checkbox"/> | <input type="checkbox"/> | b) Demonstrate how and when to change batteries.                                |
| <input type="checkbox"/> | <input type="checkbox"/> | c) What are the 3 different methods to raise/lower the resident/patient?        |
| <input type="checkbox"/> | <input type="checkbox"/> | d) Locate emergency stop button and its purpose.                                |
| <input type="checkbox"/> | <input type="checkbox"/> | e) Locate safety release button.  |
| <input type="checkbox"/> | <input type="checkbox"/> | f) Check to ensure sling is in good condition, no excessive wear (loops, etc.). |

## 2. EZ Way Smart Lift® Operation

- |                          |                          |   |
|--------------------------|--------------------------|---|
| <input type="checkbox"/> | <input type="checkbox"/> | a) Do you lock the wheels? Why or why not?                      |
| <input type="checkbox"/> | <input type="checkbox"/> | b) Demonstrate proper fitting of sling to the resident/patient. |
| <input type="checkbox"/> | <input type="checkbox"/> | c) Do you cross the legs of the sling?                          |
| <input type="checkbox"/> | <input type="checkbox"/> | d) Explain the different loops and their usage for positioning. |
| <input type="checkbox"/> | <input type="checkbox"/> | e) Demonstrate proper attachment of sling to lift.              |
| <input type="checkbox"/> | <input type="checkbox"/> | f) What are the 3 straps on the back of the sling for?          |

## 3. EZ Way Smart Lift® - Sling Removal

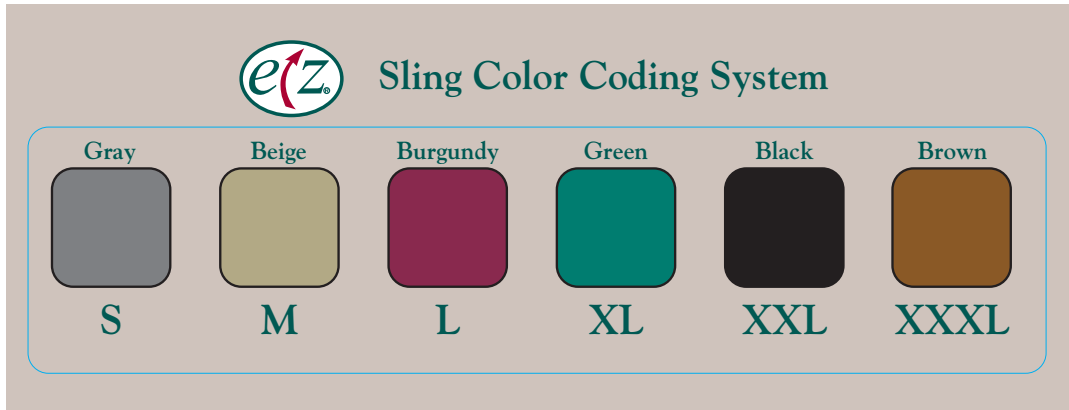
- |                          |                          |   |
|--------------------------|--------------------------|---|
| <input type="checkbox"/> | <input type="checkbox"/> | a) Demonstrate proper removal of sling from resident/patient. |
|--------------------------|--------------------------|---|

For any questions or concerns, please refer to the operator's instructions or the EZ Way Smart Lift® video.

ANSWERS: 1a) Located on control panel. 1b) Change when meter nearing "E" (empty) or "Swap Battery" appears on display or if "Emergency Stop" appears yet button is not in down position. Remove battery by grasping handle and pulling towards body – insert charged battery in battery housing. 1c) Using buttons on hand control - toggle switches on sides of control panel. "up" and "down" button on face of control panel. 1d) Red button located on top of boom – unit will not operate when button is in down position. 1e) Red tab located at base of actuator shaft. 1f) Look for intact stitching & seams, look for fraying or ripped loops and/or material, inspect material for excessive wear by holding up to light. 2a) Never lock the wheels of an EZ Way Smart Lift® when lifting or transferring a patient. Unit self-adjusts center of gravity, wheels need to be unlocked to allow for this adjustment. 2b) At a minimum, top of sling to top of "horseshoe" portion of sling should run from patient's neckline to at least 2-inches below the tailbone, respectively. 2c) Crossing legs is the safest procedure. Multi-purpose sling may be used to cradle legs instead of threading straps between legs to cross. Caregiver must assess condition of patient to determine if this is appropriate. 2d) Leg loops: Shorter loops recline patient further; longer loops place body in upright sitting position. Shoulder loops: Longer loops recline patient; shorter loops place in upright sitting position. 2e) Once sling is applied underneath a patient, attach two loops of same color nearest the head and shoulders to the hangar bar hooks closest to the head. Once legs of sling have been fitted underneath legs and crossed, attach two loops of same color to the hangar bar hooks located nearest the feet. Ensure all loops securely fastened to hooks before lifting. 2f) Straps are for guiding patient and rotating patient while suspended; Also helps with upright seated positioning when the middle strap is held stationary, just prior to seating patient. 3a) If supine, log roll patient to one side folding half of sling and tuck under patient. Roll patient in other direction and remove entire sling from under patient. If seated, gently pull legs of sling from under patient's legs placing sling legs to side of patient. Grasp middle handle and gently pull upward, removing sling from behind patient.



## Sling Sizing Chart



(Applies to washable and disposable slings.)

Sling Size	Small	Medium	Large	XL	XXL	XXXL
Weight of Patient	70-100 lbs.	90-220 lbs.	190-320 lbs.	280-450 lbs.	400-600 lbs.	600 + lbs.
Maximum distance from patient's tailbone to base of neck <sup>3</sup> <small>**Does not apply to Belted Mesh or Multi-Purpose slings**</small>	21"	24"	26"	29"	36"	37"

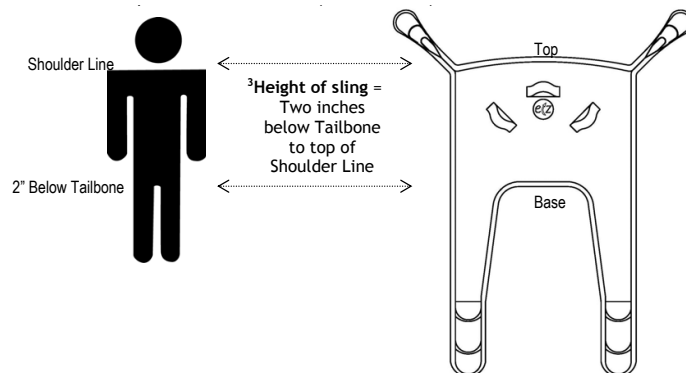
<sup>1</sup>**NOTE!** The size/weight designations are merely estimates and basic guidelines. A proper fit will depend on factors other than weight measurements, including the height and girth of a patient. A proper fit will involve the judgment of the caregiver.

\*It is important to evaluate the width of a patient in relation to the width of the sling.

\*\*It is important that no portion of the patient overlap the sides of the sling.

<sup>2</sup>Color Coding is used on the binding of slings. It is not used with specialty slings.

<sup>3</sup>It is important that the base of the sling be positioned two inches below the tailbone and the top of the sling is parallel with the top of the shoulder line (base of neck).



To order slings, please call **1-800-627-8940**.

See a complete list of our accessories at [www.ezlifts.com](http://www.ezlifts.com)