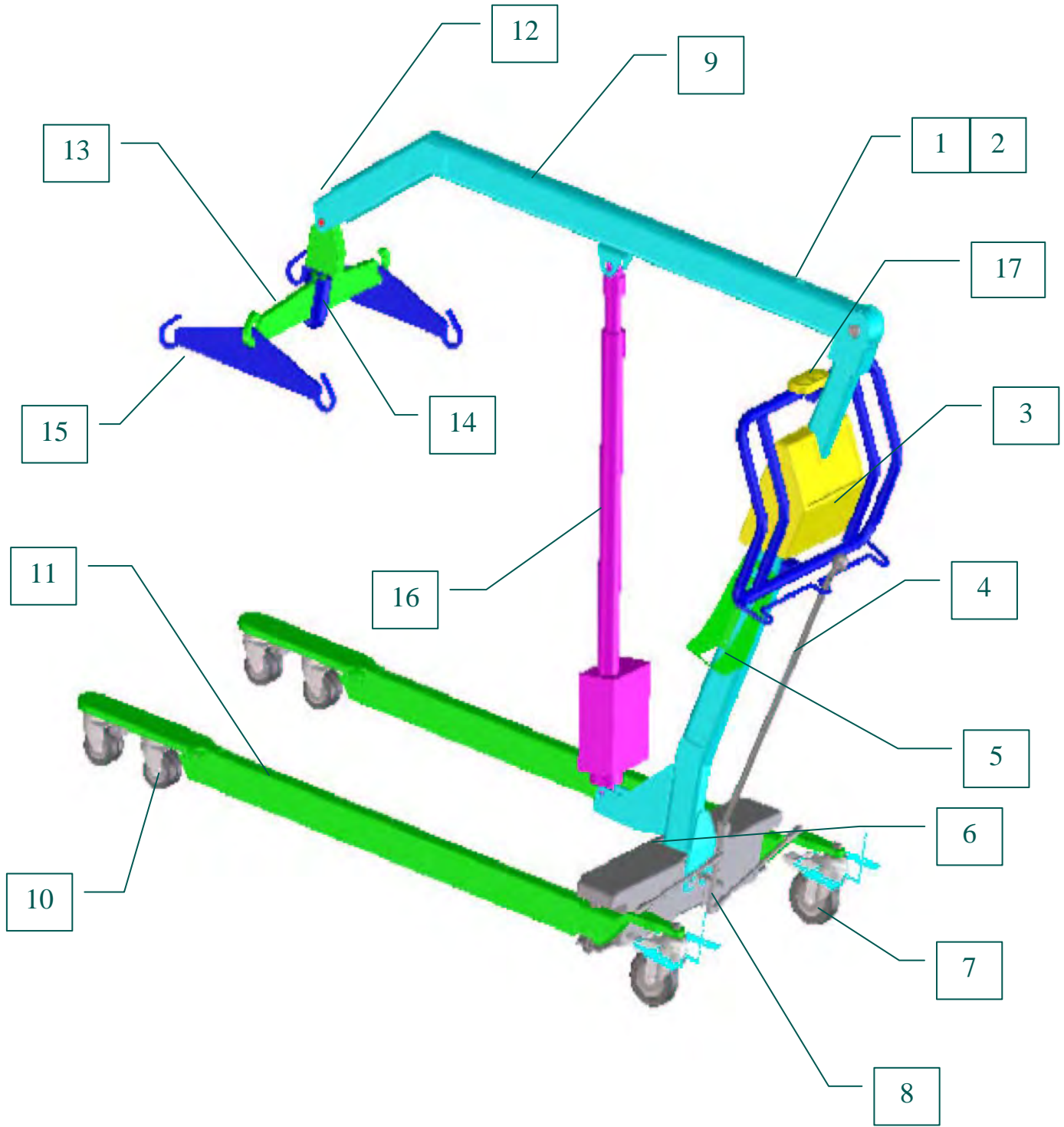




EZ Way, Inc.

L1000 Parts List





EZ Way, Inc.

L1000 Parts List

1000# EZ Lift-Premier Model L1000 PS3-Part List

<u>Item</u>	<u>Part No.</u>	<u>Description</u>
1	11842	Switch Emergency Stop Button Lift and Stand
2	11817	Guard Emergency Stop Switch Lift
3	12049	Shroud Assembly Smart Lift with Scale
	12050	Shroud Assembly Smart Lift without Scale
4	13316	Handle Spreader Assembly
5	11871	Battery Pack Assembly UL
6	11920	Cover Base Assembly, 1000 lb. Lift
7	11885	Caster Rear Lift, 1000lb Lift and 800lb Stand
8	13310	Bar Pivot Lift, 1000lb
9	11882	Boom Lift, 1000lb
10	14500	Caster Front Lift and Stand
11	11916	Cover Leg Lift, 1000lb
12	11540	Boom end cover
13	17007	Hanger Assembly with Scale S-Beam 1000lb
	17009	Hanger Assembly without Scale 1000lb
14	15500	Pad Green Hanger Assembly Lift
15	12794	Hanger Sling, 1000lb
16	12168	Electronic Actuator
17	12706	Hand Control Assembly



EZ Way, Inc.

1,000 lb. EZ Lift Safety & Maintenance Checklist

The EZ 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 one month. 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



FRONT WHEELS



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

(Continued on Reverse)



EZ Way, Inc.

1,000 lb. EZ Lift Safety & Maintenance Checklist



Check actuator for the following.

1. Inspect the plastic housing for any dents or cracks.
2. Inspect the cables to see if they have been cut or pinched.
3. See if the actuator appears deflected when fully extended at full load.
4. Verify that the mounting points do not have any cracks or other defects.
5. Apply a heavy grease to actuator mounting pins as needed.
6. 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.

6. 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!
7. Test the Emergency Stop Switch. If the switch does not stop the lift when activated, call the EZ Way Service Department immediately!
8. Perform a functional test of the emergency lowering feature of the lift actuator if it is so equipped.
9. Perform a functional test of the anti-pinch feature of the lift actuator. This feature turns the actuator off when lowering the lift arm if an obstruction is encountered.
10. 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.
11. Do a visual check for any damaged, missing or loose parts. Repair as necessary.
12. 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.
13. When cleaning the lift, 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****

The SKF Magnetic Runner Actuator used on this unit should be replaced after 4 years or 20,000 double strokes (up and down) per the original manufacturer.

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



MOVING LIFT

To move the lift, press and hold the key for the desired direction of travel.

WEIGHING

Capturing new weight

To capture a new weight, press the Weight key. While capturing the new weight a “?” will be seen indicating that the control is waiting for a weight to lock in. Once the weight has locked in a “*” will be seen. At this point, the weight has been locked in and saved into memory as the next recall weight.

Recall last weight

To recall previous weight, press the ‘down’ key and then ‘weight’ key. The weight will be displayed with a # symbol indicating that the weight is recalled.

MENUS

Navigating through menus

1. Pressing the Up or Down keys will move (also described as ‘**scrolling**’ below) through menu items.
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 keys will change the parameter value.
2. Pressing the Right Toggle Switch will lock the value into memory.
3. Pressing the Left Toggle Switch will back out of the parameter without saving the value.

Enter Customer Settings menu/ Weight calibration

1. After power up sequence, press and hold the Down key followed quickly by the Up key and hold both keys for 5 seconds.
2. Back out of Customer Settings by hitting left toggle switch.



EZ Way, Inc.

Smart Lift Scale Calibration

SCALE CALIBRATION PROCEDURE

1. **Nothing should be hanging** from the hanger/spreader assembly **except the sling hangers**. During the time the lift is turned ON and the battery level is displayed, the microprocessor is resetting Zero.
2. Press the **“ON/OFF”** key to power up the unit.
3. **Pick up an exact and known weight** (preferably 200lb.). (Note, once in the Calibration Menu the lift is no longer able to move)
4. Press the **“WEIGHT”** key to ensure the scale is functional.
5. Enter the calibration menu. After power up sequence, press and hold the Down key followed quickly by the Up key and hold both keys for 5 seconds.
6. Press the **“UP”** key to calibration menu. Press **Enter** (right toggle) twice.
7. Scroll to the proper calibration weight and enter selection. (Note: If sling is not attached subtract 1.5lbs.)
8. “Begin weight calibration” is displayed. Press Enter (right toggle), Select yes, and press Enter (right toggle) to execute calibration. Display shows ‘CALIBRATING’.
9. When the display leaves this menu selection, it will have been calibrated to the selected weight. Exit the calibration menu.
10. Press **“WEIGHT”** key to verify calibrated weight to 1% accuracy. Calibration is now complete.



BATTERY MESSAGING

Charge Battery

When the battery level gets below 22.7 volts the display reads 'CHARGE BATTERY'.

Swap Battery

When the battery level gets below 22.3 volts the display reads 'SWAP BATTERY' and only allows the unit to go in the down direction.

FAULT MESSAGING

Duty Cycle Fault

The lift and stand actuators are rated for a specific duty cycle. If the lift is operated continuously for more than 5 minutes, the actuator may be damaged. When the duty cycle fault occurs the following message comes up; 'Actuator Duty Cycle Fault...Cooling'. When this fault occurs the operator can lower the patient. After lowering, the operator will need to wait 15 minutes to cool the actuator motor.

Actuator Overload

1. When an Up or Down command is executed the circuit board monitors current consumed by the actuator. If the actuator consumes too much current the control will recognize this condition.
2. At this time an 'Actuator Overload' message will display. The 'Actuator Overload' may result from lifting a patient/object that is too heavy, lifting a sling that is trapped under the lift, accidentally lifting against an immovable object, or mechanical failure (internal actuator binding, etc.).
3. To override an 'Actuator Overload' press the down key. The lift will only operate in the down direction during a current overload.

Note: This feature is available on all scale and non-scale units.

Weight Overload

1. When an Up or Down command is executed the control monitors weight readings from the scale (if equipped). If the weight is measured too high the control will recognize this condition.
2. At this time a 'Weight Overload' message will display. The Weight Overload may result from lifting a patient/object that is too heavy or lifting a sling that is trapped under the lift.
3. To override a 'Weight Overload' press the down key. The lift will only operate in the down direction during a Weight Overload.

Note: This feature is only available on scale units.



ADVANCED DIAGNOSTICS

Real Time Current

1. When the display shows “EZ Lift Awake”, press the hidden key (located in the lower right corner of control panel). Now whenever the lift is in motion, the real time current will be shown.
2. The Real Time Current function will disable after the unit is powered off.

Real Time Voltage

1. In the case of a possible battery or connection issue the battery voltage can be monitored real-time. Go to the Customer Settings menu as described above.
2. Press the Enter key several times until you see “Volts = ...”.

CUSTOMER SETTINGS MENU

Within the Customer Settings Menu there are several functions that provide customer feedback. The functions include; an Inspection Reminder, lift usage, and diagnostic information. Below is a description of each function within the Customer Settings Menu.

Inspection Reminder

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 powered up. The purpose of the inspection reminder is to notify the operator that the lift or stand needs to be inspected with the ‘EZ Way Safety & Maintenance Checklist’ form (see attached). When the checklist is complete the reminder is to be reset in the Customer Settings Menu as described below.

Enable/Disable Inspection Reminder

To enable/disable the Inspection Reminder call EZ Way Service for additional instructions.

Inspection Complete

To reset the 30 day inspection reminder:

1. Enter the Customer Settings Menu as described above.
2. Press enter. Scroll to Inspection Complete. Press enter. Scroll to choose Yes. Press Enter.
3. Press Exit twice.

Overweight Counts

The Overweight Counts function tracks ‘Weight Overload’ occurrences. This read-only information provides customer feedback for; accidental lifting of a trapped sling or accidental lifting of overweight patient. This information is available for units with the scale option only.



EZ Way, Inc.

Advanced Smart Lift Features

Actuator Minutes

The Actuator Minutes function tracks the accumulated amount of raising and lowering time of the actuator. This read-only information provides accurate customer feedback of lift usage within the facility. In the event of an actuator replacement the 'Actuator Minutes' register can be reset by calling an EZ Way Service representative.

Actuator Overload Counts

The Actuator Overload Counts function tracks Actuator Overload occurrences. This read-only information provides customer feedback for; accidental lifting of a trapped sling, accidental lifting of boom against obstruction, or accidental lifting of overweight patient.

Lift/Stand Total Minutes

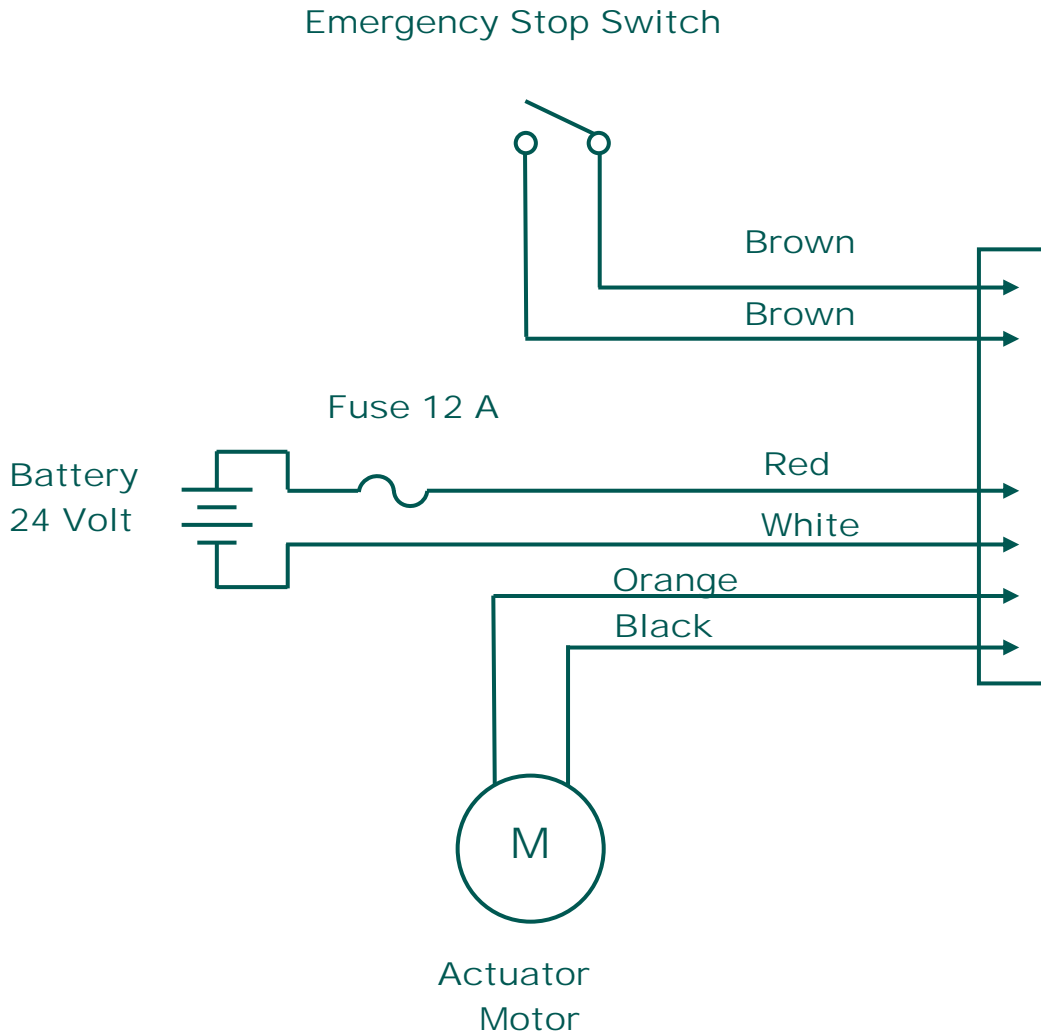
The 'Actuator Total Minutes' function tracks the accumulated amount of raising and lowering time of the actuator on the lift. The 'Actuator Total Minutes' can not be reset. This read-only information provides accurate customer feedback of lift usage for the entire life of the lift.

Volts

The 'Battery Voltage' function tracks the real-time voltage of the battery. This information is useful in diagnosing issues related to battery level.

SW Rev.

The 'Software Revision' is used for tracking software changes.





Trouble-Shooting Guide

Problem	Solution
Machine will not turn on.	<p>Check battery. Make sure it is fully charged.</p> <p>Check battery receiver plug. Make sure prongs are not bent or pushed in. Call EZ Way Service for replacement.</p> <p>Check fuses.</p> <p>Check green connector on PC board for good connection. Make sure all wires are tight.</p> <p>Make sure on/off button is not flattened out.</p> <p>Check if green LED is flashing on board. Flashing LED indicates the PCB is getting power.</p> <p>Make sure W6 jumper is in place.</p>
No up/down but display works.	<p>Check connection at actuator.</p> <p>Check voltage at actuator connection. If 24 VDC are present then the actuator may need replaced.</p> <p>If voltage is not good, check black and orange wires on green connector at circuit board. Make sure they are not loose.</p> <p>Call Service if voltage is not good and connection is good.</p>
Continuous up/down	<p>Unhook toggles and airlines from board. If problem still persists Call EZ Way Service.</p>