

Operation and Service Manual

Battery Powered Mobile Lift Table

BX30B, BX50B, BX80B

BX15WB, BX30WB

Read this manual carefully and understand completely before operating lift Tables. Keep filing this manual for future reference. If this copy is lost, please contact your local supplier for a replacement.

Explanation of Terms and Symbols


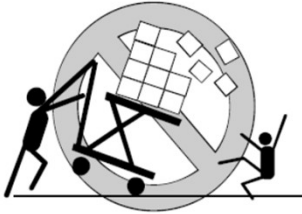


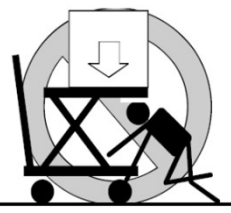




In this manual, 「Warning」, 「Caution」 are defined and specified as below. Notice of Warnings are very important for safe operations. As these are very important to protect operators from accidents resulting in personal injury and death, and damage to property, so make sure to read thoroughly and understand fully before operation.

Warning Incorrect operation may result in serious injury or death of the operator.

Caution Incorrect operation may result in injury and damage to the property. The occurrence of the danger is lower than "Warning" articles.

⚠ Warning !

◎ Hazard or unsafe practice which, if not avoided, may result in DEATH or SEVERE PERSONAL INJURY and PROPERTY DAMAGE.

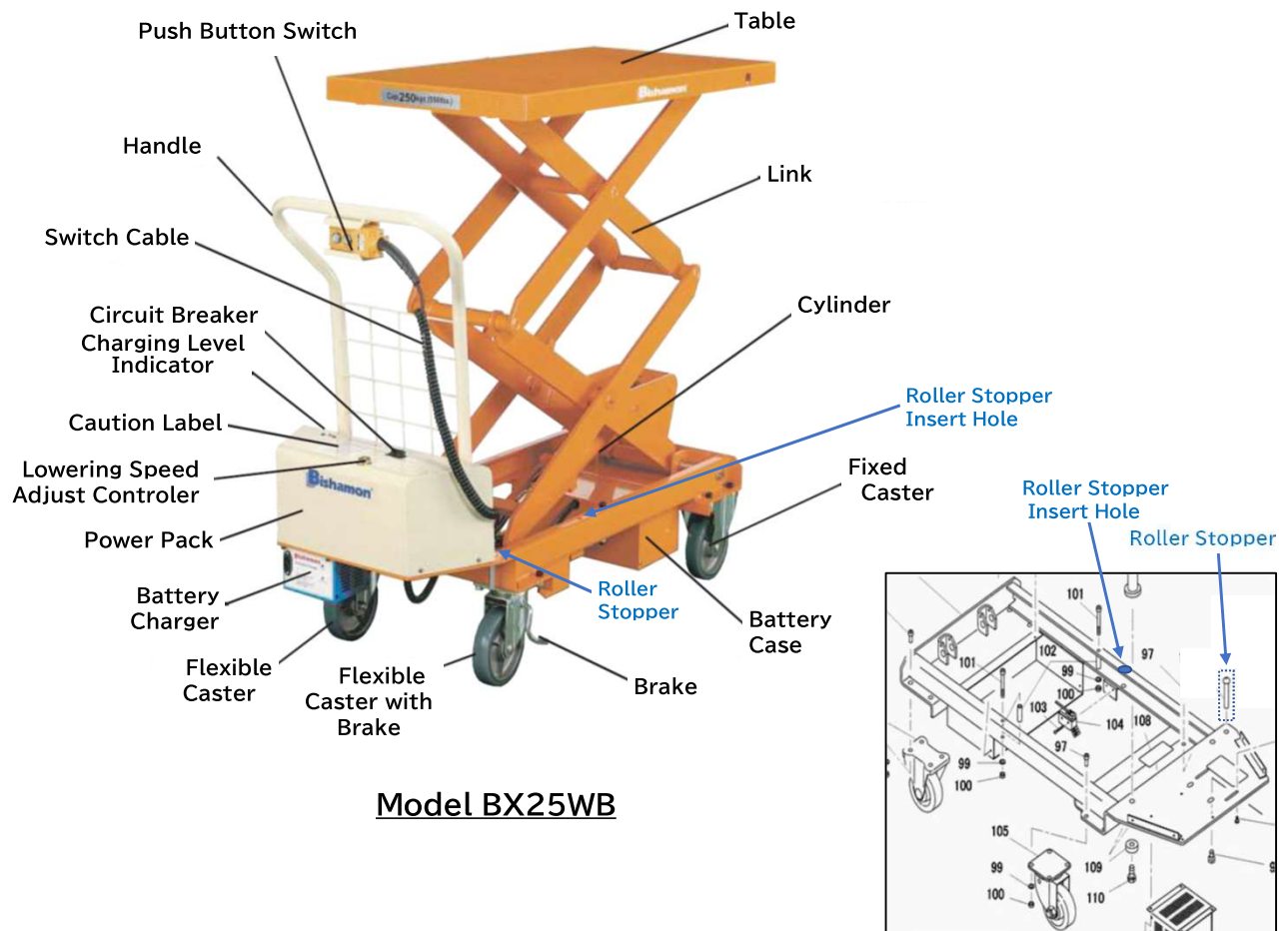
			
DO NOT use lifter on slope, unlevel or soft surface. Lifter may become unstable and/or uncontrollable. SEVERE PERSONAL INJURY and PROPERTY DAMAGE could result	DO NOT move/maneuver lifter with table (cargo) kept at high position. It may result in turnover and cargo collapsing SEVERE PERSONAL INJURY and PROPERTY DAMAGE could result	DO NOT put hand near Scissor Mechanism or other moving parts. SEVERE PERSONAL INJURY could result	NEVER sit, stand or ride on table. SEVERE PERSONAL INJURY or DEATH could result
			
NEVER go under table. SEVERE PERSONAL INJURY or DEATH could result	DO NOT overload lifter. ALWAYS stay within designated capacity and load center rating SEVERE PERSONAL INJURY could result	USE ONLY in areas clear of all personnel and objects. SEVERE PERSONAL INJURY and PROPERTY DAMAGE could result	DO NOT use in areas of multi level floor surface Loss of control and SEVERE PERSONAL INJURY could result
			
KEEP FEET CLEAR of rolling wheels SEVERE PERSONAL INJURY could result			

⚠ Caution !

© Hazard or unsafe practice which, if not avoided, may result in MINOR or MODERATE PERSONAL INJURY and PROPERTY DAMAGE.

1. READ THIS OPERATION MANUAL COMPLETELY BEFORE USING AND THOROUGHLY UNDERSTAND AND FOLLOW ALL SAFETY INSTRUCTIONS. Wrongful use may result in accident.
2. This mobile lift table is designed to use on smooth floor with balanced, stable, firmly stacked load that is within capacity and load diagram. DO NOT use for any other purpose than its intended use.
3. Mobile Lift Table shall be operated by TRAINED personnel only. OPERATOR shall read "Operation Manual" completely and thoroughly understand the controls and operation of this equipment BEFORE operating.
4. DO NOT lower the table with load with fast speed. Or it may result in impact load and damage the lift table.
5. ALWAYS observe lift table and ALWAYS stay at the controls while the lift table is in motion. RELEASE controls and STOP lift table immediately if load on the lift table appears to become unstable. NEVER leave the loaded lift table unattended unless the table are fully lowered position.
6. Set the parking brake and park the lift table when moving the load onto the table. Or the unit may start to move all of a sudden during moving of the load and may result in falling of the load.
7. DO NOT use lift table with unstable, unbalanced or loosely stacked load. Unbalanced loads may become unstable and fall. SEVERE PERSONAL INJURY and PROPERTY DAMAGE could result.
8. DO NOT handle unsecured or unstable load that could fall backwards.
9. Make sure to perform the inspection following to the instructions of Operation Manual.
10. DO NOT alter or modify the lift table in any way.
11. ALWAYS keep feet, hands and fingers away from casters, load wheels and all moving parts and components. SEVERE INJURY could result.
12. When performing repair or maintenance, turn off power, unload the cargo and put Roller Stopper to prevent table from lowering.
13. The lift table is NOT waterproof and is intended to be used in a dry environment and at a moderate temperature range.

1. Name of Components



2. Pre-Operation Check

Perform the Pre-Operation Checks before operating everyday.

⚠ Caution

If any abnormality is found, **DO NOT** use lifter until lifter is repaired and abnormality is fully removed. Or it may result in damage to the lifter and serious injury and accidents.

Check below before operating.

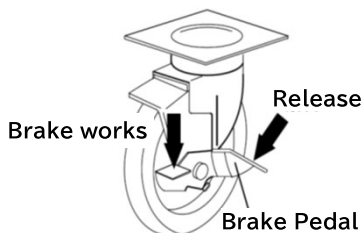
1. Any damage, distortion or crack in the lifter frame, table ?
2. Any oil leak from hydraulic line, cylinder ?
3. Does table not lower naturally after lifted ?
4. Do wheels roll smoothly ?
5. Does brake work properly ?
6. Are bolts and nuts fastened firm ?
7. Turn on power and check battery charging level
8. Turn on power and check operation of lifting and lowering
9. Check if there is any damage in piping, or table

3. Operation

3-1 Brake

⚠ Warning

Make sure to lock the brake except when maneuvering. Or lifter may move all of sudden and could result in accidents.



Right side flexible wheels have brake to lock wheel

- ① To lock - Push down of Brake Pedal in the front
- ② To release - Push down the Pedal in the back

3-2 Maneuver (Move)

⚠ Warning

- **DO NOT** maneuver or stop lifter on the slope.
- **DO NOT** move/maneuver lifter with table (cargo) kept at high position. It may result in unbalance of the cargo and lifter, and could lead to collapse of the cargo and turnover of the lifter.

- ① If table is loaded with cargo, make sure cargo does not collapse from the vibration during maneuvering. And lower the table to a lower position.
- ② Hold handle and release brake.
- ③ Pay close attention on lifter surroundings and possible collapse of the cargo when maneuvering the lifter.
- ④ Lock the brake when reached destination.

3-3 Lifting table

Max Capacity of Each Model :

BX30B - 300kg, BX50B - 500kg, BX80B - 800kg
BX15WB - 150kg, BX30WB - 300kg

⚠ Caution

- **DO NOT** place load on the table in an unbalanced manner such as on a single point, an edge, or a corner of the table.
This could result in the collapse of the cargo and accident.
- Power pack could be damaged if being operated continuously for long time.
- Stop operation if hyd. oil temperature became too high.

When pushing **UP** button, table goes up and stops when releasing button.

Note :

Table is supported by Hyd. Cylinder. Because of the hydraulic system, table lowers little by little naturally. Be noted table can not keep same height for long time.

3-4 Lowering table



Warning

- **DO NOT** put hands near Scissor mechanism or other moving parts. Severe injury could result
- **DO NOT** lower the loaded table with fast speed. Or it may result in impact load and damage the lift table.

When pushing **DOWN** button, table goes down and stops when releasing button.

3-5 Charging Battery

(1) Charging

Put charge cable to charger and put cable plug into receptacle.



Caution

Make sure to turn off circuit breaker of charger before start charging

(2) Charge Level Indicator

Charge level would be displayed through 3 lamp colors (**Green, Yellow, Red**).
Lamp display (color) would be changed with the following order.

Green (lighting) → **Yellow** (lighting) → **Red** (lighting) → **Red** (blinking)

Green Lamp lighting	: Charge level is appropriate
Yellow Lamp lighting	: Charge level is insufficient
Red Lamp lighting · blinking	: Lack of charging

※ Try to charge earlier (beforehand)

- Make sure to charge when **Yellow** lamp lighting
- Charge immediately when **all 3 color (Green, Yellow, Red)** lamp blinking.
It is possible battery could be drained or deteriorated. If can not be charged, replace battery

(3) Battery Charger

Charge Lamp (**Red**) Display

Power indicator lamp of charger would be lighting when charge cable is plugged.

Charge Lamp (**Green**) Display

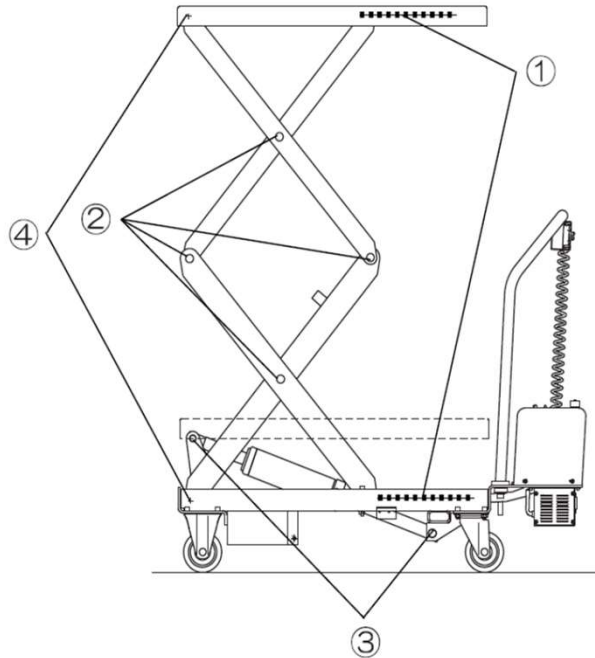
Power indicator lamp start blinking as soon as charge lamp lighted.

When charging is finished, blinking changes to lighting and shows charging is finished.

4. Regular Maintenance

Perform regular periodic maintenance for the long life of the unit.

Lubricate Points



- ① Roller Sliding Portion (Greasing)
- ② Link (Grease up)
- ③ Cylinder fixing points (Grease up)
- ④ Link Pin (Lubricate oil)

1. Lubricate (grease up, put lubrication oil) on sliding portion of link roller etc.
- **Every Month**
2. Replace hyd. oil (ISO VG22) - **Every 12 months**

5. Specification

Model	Capacity (kg)	Table Size (mm)	Table Height (mm)	Overall H X W X L (mm)	Rising Speed	Number of Rise	Wheel	Machine Weight
BX15WB	150	500X813	380~1,380	890X500X1,072	10 Sec.	110 times	Φ100 Rubber	129 kg
BX30B	300	500X813	290~860	890X500X1,072	9 Sec.	110 times	Φ100 Rubber	106 kg
BX30WB	300	518X1,010	430~1,600	954X520X1,264	13 Sec.	100 times	Φ150 PU	183 kg
BX50B	500	518X1,010	440~1,015	954X520X1,264	11 Sec.	110 times	Φ150 PU	153 kg
BX80B	800	518X1,010	440~1,000	954X520X1,264	15 Sec.	100 times	Φ150 PU	163 kg

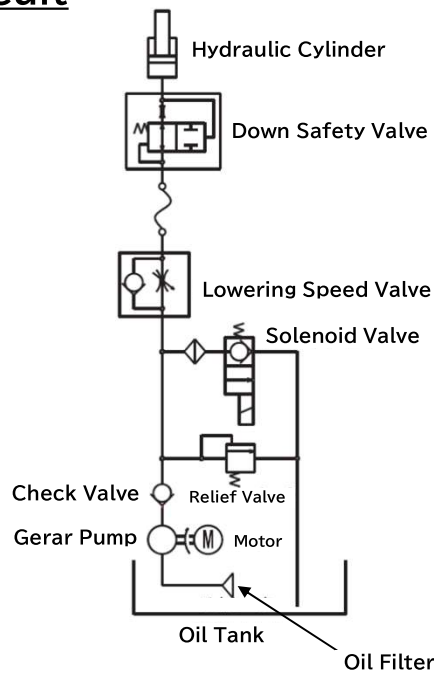
Note : PU - Polyurethane

Battery :

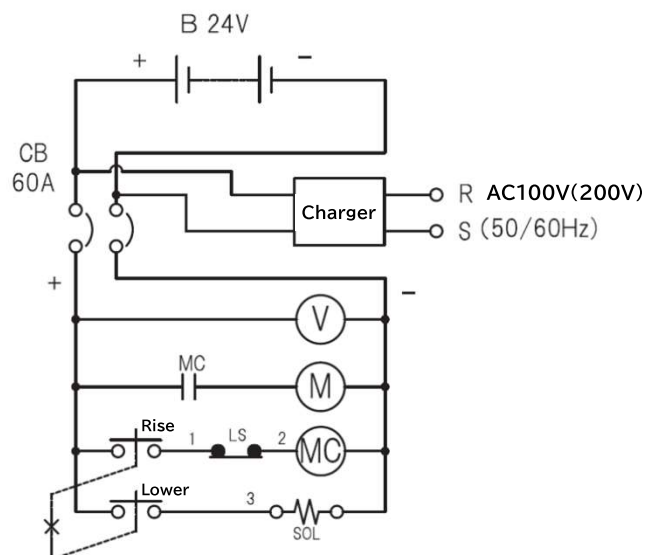
- | | |
|----------------------|-------------------------------|
| BX15WB, BX30B | 12V/18AH X 2 (Shield Battery) |
| BX30WB, BX50B, BX80B | 12V/26AH X 2 (Shield Battery) |

6. Hydraulic & Electric Circuit Diagram

Hydraulic Circuit



Electric Circuit



※ Make sure to turn off Circuit Breaker of charger before start charging battery

7. Disposal

When disposing of this lift table, dispose of the metal, non-metal, plastic, and hydraulic oil components separately. There are regulations for disposing of the hydraulic oil, so make sure to sort and follow the local rules. If you have any questions regarding disposal, please check with your supplier of the lift table.

8. Product Warranty Conditions

Warranty

Should the unit malfunction within the warranty period (Within one (1) year of purchase) when it has been operated in accordance with the user manual and the warning labels on the unit, we will adjust the defective component, repair it, or send a replacement part free of charge. However, this does not apply in the case of secondary damage or any damage which any of the following apply:

- (1) Damage or injury resulting from incorrect operation, improper inspection, improper storage, or any other type of negligence
- (2) Damage or injuries resulting from changes (modifications) that negatively impact the product's operation mechanism
- (3) Consumable parts that are damaged and need to be replaced
- (4) Damage or injury resulting from fires, earthquakes, wind, floods, or other natural disasters or external factors
- (5) Problem resulting from specified parts not being used
- (6) Error in the warranty claim process (Ex: failure to indicate Model or Serial No.etc.)
- (7) Damage or injury resulting from installation
- (8) Repairs performed not by our company or not by our authorized dealer
- (9) Damage confirmed to be the result of overuse, user error, or accident

Furthermore, all rubber components and other naturally degradable products used in this products and its accessories, as well as all consumable products, fall outside the scope of this warranty.

This lift table is not waterproof, so rust, corrosion, short circuits, and other damage caused by water is not covered under warranty.

How to Claim Warranty

If you decide to file claim for this product based on the above, please contact your dealer. The dealer will carry out the necessary procedures. In addition, we can not decide whether or not any particular situation falls within the scope of this warranty.

9. After Sales Service

•Product does not work properly	→	Review the manual and try to find solution
•Product still does not work properly	→	Contact your supplier and request repairs
•Repairs within the warranty period	→	The warranty is valid one year from the date of purchase. We will service your product in accordance with warranty conditions.
•Repairs out of warranty period	→	Consult with your supplier
•Availability of Spare Parts	→	The spare parts are available for 8 years after discontinuing manufacturing

Contact your lifter supplier for any information regarding after service.

When contacting your lifter supplier, provide following information.

- Model No.
- Serial No.
- Purchase Date
- Conditions of trouble

Record the above information in the table below for future inquiries.

Model No.	
Serial No.	
Purchase Date	
Lifter Supplier	
Trouble Date and conditions	Date :
	Date :
	Date :
	Date :