

# Bishamon

## BATTERY POWERED LIFT TABLE



**BX-15WB**

**BX-30B**

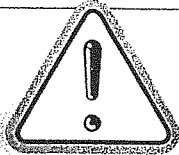
**BX-30SB**

**BX-50B**

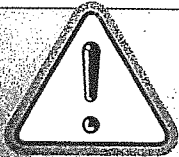
**BX-50WB**

**BX-80B**

BEFORE OPERATING THE LIFTER, READ THIS MANUAL CAREFULLY AND UNDERSTAND COMPLETELY, KEEP THIS MANUAL ON FILE FOR FUTURE REFERENCE, IF THIS IS LOST, PLEASE CONTACT YOUR LOCAL SUPPLIER FOR A NEW COPY, IF THE WARNING/ CAUTION LABEL ON THE UNIT IS LOST, PLEASE CONTACT YOUR LOCAL SUPPLIER FOR A NEW COPY.



**NOTE** : On this manual, **WARNING** means the danger which can lead to death or serious injury.



**CAUTION** means the danger which can lead to slight injury or property damage.

## **1. WARNING**

- ( 1. ) Do Not put foot or hand in scissors mechanism.
- ( 2. ) Do Not allow other person to stand in front of or behind lifter when it is moving.
- ( 3. ) Do Not move lifter when table is in raised position. Load could fall down.
- ( 4. ) Do Not enter under table.
- ( 5. ) Do Not overload lifter.
- ( 6. ) Do Not put foot in front of rolling wheel. Injury could result.
- ( 7. ) Watch difference of floor level when moving lifter. Load could fall down.
- ( 8. ) Do Not use lifter on slope or inclined surface. Lifter may become uncontrollable and create danger.
- ( 9. ) Do Not lift people. People could fall down and suffer severe injury.
- (10.) Do Read "Caution" on the case of power pack of the lifter, before daily operation.

## **2. CAUTION**

- ( 1. ) *Read this manual carefully and understand completely before operating lifter. Improper operation could create danger.*
- ( 2. ) *This lifter is a movable lifter designed to lift or lower rated load on table. Do not use lifter for other purpose than its intended use.*
- ( 3. ) *All lifter service must be performed by qualified personnel only.*
- ( 4. ) *Do Not lower table too fast. Load could fall down and create danger. Lower speed controller is available for safety purpose.*
- ( 5. ) *Keep watching the condition of load. Stop operating lifter if load becomes unstable.*
- ( 6. ) *Brake lifter and switch the breaker off when sliding load on or off table.*
- ( 7. ) *Do Not side or end load. Load must be distributed on at least 80% of table area.*
- ( 8. ) *Do Not use lifter with unstable, unbalanced or loosely stacked load.*
- ( 9. ) *Practice maintenance work according to Regular Inspection.*
- (10.) *Do Not modify lifter without manufacturer's written consent especially the electric device.*
- (11.) *Remove load from table and when servicing lifter, please use safety stopper to prevent table from lowering .*
- (12.) *This lifter is not designed to be water resistant. Use lifter under dry condition.*
- (13.) *Prolonged continuous operation might cause damage of power pack.*
- (14.) *Stop operation if temperature of hydraulic oil is too high.*
- (15.) *Do Not supply built-in charger with AC voltages other than 110V or 220V.*

# 3. NAME OF PARTS

**BX-30B**

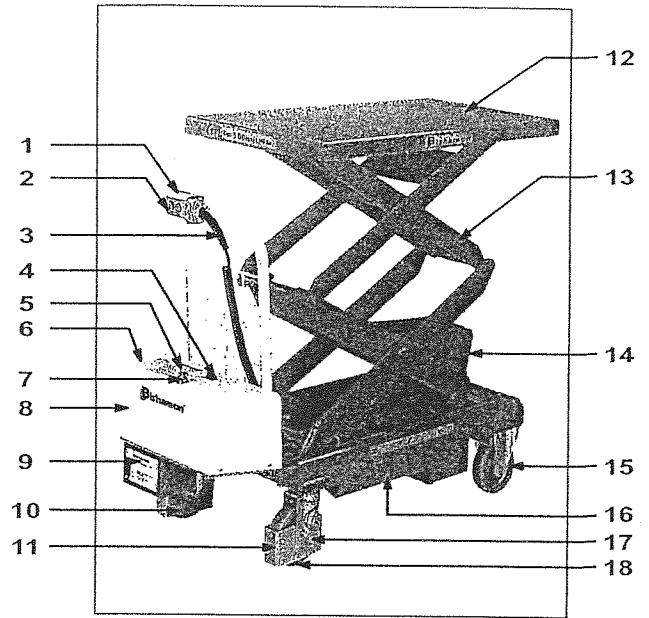
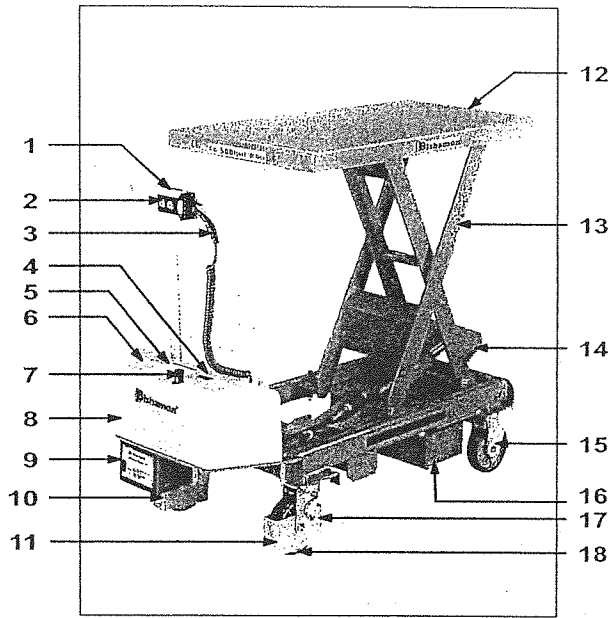
**BX-50B**

**BX-80B**

**BX-15WB**

**BX-30SB**

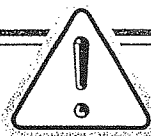
**BX-50WB**



1	Handle	10	Swivel Caster
2	Switch	11	Swivel Brake Caster
3	Switch Cable	12	Table
4	Circuit Breaker	13	Link
5	Caution Label	14	Cylinder
6	Storage Level	15	Rigid Caster
7	Lowering Speed Controller	16	Battery Case
8	Power Pack	17	Brake
9	Charger	18	Caster Cover (For CE)

## **4. DAILY INSPECTION**

*Daily inspection is effective to find the malfunction or fault on lifter. Check lifter on the following points before operation.*



### **CAUTION**

**DO not use lifter if any malfunction or fault is found**

- ( 1. ) *Check for scratch, bending or cracking on the lifer.*  
\_\_\_\_\_
- ( 2. ) *Check if there is any oil leakage from the cylinder.*  
\_\_\_\_\_
- ( 3. ) *Check the vertical creep of Table.*  
\_\_\_\_\_
- ( 4. ) *Check the smooth movement of the wheels.*  
\_\_\_\_\_
- ( 5. ) *Check the function of brake.*  
\_\_\_\_\_
- ( 6. ) *Check if all the bolts and nuts are tightened firmly.*  
\_\_\_\_\_
- ( 7. ) *Check the storage level by turning the circuit breaker on.*  
\_\_\_\_\_
- ( 8. ) *Check the lifting and lowering conditions by switching buttons on.*  
\_\_\_\_\_
- ( 9. ) *Check if there are broken hoses or broken electric wires by eyes.*  
\_\_\_\_\_

# 5. OPERATING LIFTER

## 5-1 How to use the brake

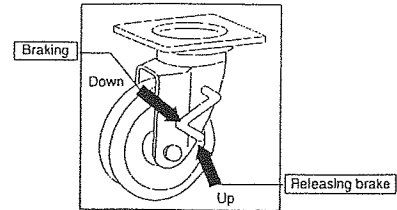


### CAUTION

**Brake lifter when not moving it in order to prevent sudden movement**

The brake is equipped with the swivel caster on the right.

- ( 1. ) Braking the wheel  
Press the brake pedal.
- ( 2. ) Releasing the brake  
Lift up the brake pedal.



## 5-2 Lifting the table



### CAUTION

- 1. Do Not overload lifter. Stay within it's rated capacity.
- 2. Do Not side or end load. Load must be distributed on at least 80% of table area.
- 3. Prolonged continuous working might cause damage of hydraulic power pack.
- 4. Stop operation if temperature of hydraulic oil is too high.
- 5. Do Not lift people. People could fall down and suffer severe injury.

- ( 1. ) Press the switch "UP" and the table lifts up to the desired position ranging vertical travel.

( 2. )

Maximum Capacity Of Table					
BX-15WB	BX-30B	BX-30SB	BX-50B	BX-50WB	BX-80B
150kgs	300kgs	300kgs	500kgs	500kgs	800kgs

Do not over load lifter.

## 5-3 Lowering table



### CAUTION

- 1. Do Not put foot or hand in scissors mechanism.
- 2. Do Not lower table with load too fast and stop suddenly. Impact load could be created and lifter could be damaged.
- 3. Adjust lowering speed controller for safety sake.

Push the switch "DOWN" and the table lowers down to the desired position.

## 6. MOVING LIFTER



### CAUTION

- **DO NOT** move lifter on slope or inclined surface. Lifter may become uncontrollable and create danger.
- **DO NOT** allow other person stand in front of or behind lifter when it is moving.
- **DO NOT** move lifter when table is in raised position. Load could fall down.
- **DO NOT** put foot in front of rolling wheels. Injury could result.
- **Watch** difference of floor level when moving lifter. Load could fall down.

- ( 1. ) *Make the load stable to prevent it from falling down.*
- ( 2. ) *Lower the table down before moving.*
- ( 3. ) *Release the brake and move the lifter.*
- ( 4. ) *Keep watching the condition of load. Stop operating lifter if load becomes unstable.*

## 7. CHARGING THE BATTERY

- ( 1. ) *The lifter is equipped with "Free Maintenance" seal type battery. Need not attend but replace when worn out.*
- ( 2. ) *Turn the circuit breaker off when charging the battery.*
- ( 3. ) *The attached automatic charger is only available for the optional voltage of 110V or 220V as referred.*
- ( 4. ) *Check the storage level indicator on the power pack for the battery condition.*
- ( 5. ) *The switch of charger turns off automatically when the battery reaches 80% capacity or exceeds 12 hours in charging condition.*
- ( 6. ) *Check the wiring or confirm AC voltage when AC power Indicator of Automatic Charger shows Abnormal by Red Flashlight.*

## 8. REGULAR INSPECTION

- ( 1. ) Check the items emphasized in daily inspection (daily).
- ( 2. ) Lubricate with grease the rails where roller moves. Also lubricate the grease nipples (monthly).
- ( 3. ) Lubricate all the pivoting points and axles (every 6 months).
- ( 4. ) Replace the hydraulic oil (every 12 months).

## 9. TROUBLE SHOOTING

TROUBLE	CAUSE	REPAIR
Table does not rise while motor does not run.	1.Faulty wiring.	1.Check the wiring refering to the actual wiring diagram.
	2.Battery cord is disconnected.	2.Connect the battery cord.
	3.Battery charge is insufficient.	3.Charge the battery.
Table does not rise while motor runs.	1.Faulty adjustment of relief valve.	1.Adjust relief valve again.
	2.Faulty hydraulic pump.	2.Replace power pack.
	3.Shortage of hydraulic oil.	3.Add oil.
Vertical creep of table.	1.Oil leakage in lowering valve.	1.Replace lowering valve.
	2.Oil leakage from hydraulic circuit.	2.Check hydraulic circuit and repair.
Oil leakage from cylinder.	Faulty sealing.	Replace sealing.
Oil leakage from piping or joint.	Insufficient tightening.	Tighten joint again.
Oil leakage from air breathing.	Excessive quantity of oil.	Reduce oil quantity.
Battery fails to be charged.	Battery is worn out.	Replace battery.
Charger shows abnormal by red flash.	1.Charger is not connected to breaker.	Connect cord to breaker.
	2.Poles are reverse in connection.	Interchange the connection of poles.



# 10 SPECIFICATIONS

Model	BX-30B	BX-50B	BX-80B	BX-15WB	BX-30SB	BX-50WB
Capacity (kg)	300	500	800	150	300	500
Table Size (mm)	815 x 500	1010 x 520	1010 x 520	815 x 500	1010 x 520	1010 x 520
Max Table Height (mm)	890	1025	975	1375	1620	1605
Min Table Height (mm)	292	438	438	385	445	435
Dimensions (mm) L x W x H	1060 x 500 x 880	1270 x 520 x 950	1255 x 520 x 950	1008 x 500 x 900	1270 x 520 x 950	1270 x 520 x 950
Vertical Travel (mm)	577	560	560	990	1190	1165
Lifting Motor (DC24V KW)	0.8	0.8	2	0.8	0.8	2
Battery X 2	24V18AH	24V26AH	24V26AH	24V18AH	24V26AH	24V26AH
Charger (built-in) 24V3A	8.5Hr	8.5Hr	8.5Hr	8.5Hr	8.5Hr	8.5Hr
Approx Lifting Speed	<sup>10</sup> 3 Sec.	<sup>10</sup> 4 Sec.	<sup>12</sup> 7 Sec.	<sup>10</sup> 4 Sec.	<sup>12</sup> 4 Sec.	<sup>12</sup> 8 Sec.
Wheel Dia	100Ø	150Ø	150Ø	100Ø	150Ø	150Ø
Weight (kgs)	106	157	160	129	183	200

# 11. WIRING DIAGRAM / HYDRAULIC CIRCUIT

