Bishamon®

Lifter BX Series

BX30, BX50, BX80, BX15W, BX30S, BX50S, BX50W

English
How to install the handle and Control cable on BX lifters (except BX15)

1. Install the handle on the frame with the hex bolts and the handle seat.
2. Install the control cable with the fork end pin and cotter pin.

3. Insert the end of control cable tube to the slotted bracket on the frame. Put the slotted bracket between the adjust nuts.
   Then fix the tube by turning the adjust nuts.

4. The tension of the control cable is already adjusted before delivery. If it is necessary to stretch the control cable, turn both of the adjust nuts and stretch the cable to the direction of arrow.

⚠ CAUTION
DO NOT tighten the adjust nut too much.
Operation and Service Manual

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. ALSO, IF THE WARNING/CAUTION DECAL ON THE UNIT IS LOST, PLEASE CONTACT YOUR LOCAL SUPPLIER FOR A NEW DECAL.

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. WARNINGS AND CAUTIONS

<table>
<thead>
<tr>
<th>WARNING</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Icon" /></td>
</tr>
<tr>
<td>DO NOT put foot or hand in scissors mechanism.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>WARNING</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image6" alt="Icon" /></td>
</tr>
<tr>
<td>DO NOT put foot in front of rolling wheels. Injury could result.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Read this operation manual carefully and understand completely before operating lifter. Improper operation could create danger.</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td>3. DO NOT allow person to operate lifter who does not understand its operation.</td>
</tr>
<tr>
<td>4. DO NOT lower table too fast. Load could fall down and create danger.</td>
</tr>
<tr>
<td>5. KEEP watching the condition of load. Stop operating lifter if load becomes unstable.</td>
</tr>
<tr>
<td>6. Brake lifter when sliding load on or off table.</td>
</tr>
<tr>
<td>7. DO NOT side or end load. Load must be distributed on at least 80% of table area.</td>
</tr>
<tr>
<td>8. DO NOT use lifter with unstable, unbalanced or loosely stacked load.</td>
</tr>
<tr>
<td>9. Practice maintenance work according to Service instructions.</td>
</tr>
<tr>
<td>10. DO NOT modify lifter without manufacturer's written consent.</td>
</tr>
<tr>
<td>11. REMOVE load from table and use safety stopper to prevent table from lowering when servicing lifter.</td>
</tr>
<tr>
<td>12. This lifter is not designed to be water resistant. Use lifter under dry condition.</td>
</tr>
</tbody>
</table>
## 2. NAME OF PARTS

- BX30, BX50, BX80
- BX15W, BX30S, BX50S, BX50W

### Diagram:

1. HANDLE
2. LOWERING LEVER
3. TABLE
4. LINK
5. HYDRAULIC UNIT
6. BRAKE PEDAL
7. LIFTING PEDAL
8. QUICK LIFTING PEDAL (BX50S ONLY)

## 3. DAILY INSPECTION

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

<table>
<thead>
<tr>
<th>CAUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>DO NOT use lifter if any malfunction or fault is found.</td>
</tr>
</tbody>
</table>

(1) Check for scratch, bending or cracking on the lifter.
(2) Check if there is any oil leakage from the cylinder.
(3) Check the vertical creep of the 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.
4. OPERATING LIFTER

4-1. 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 side.

1. Braking the wheel
   Press the brake pedal.

2. Releasing the brake
   Lift up the brake pedal.

4-2. Lifting the table

⚠️ WARNING

1. DO NOT overload lifter. Stay within its rated capacity.
2. DO NOT side or end load. Load must be distributed on at least 80% of table area.

Press the lifting pedal several times until the table reaches the desired position.

The table does not elevate after reaching the highest position even if the lifting pedal is pressed.

The table lowers slightly after reaching the highest position.

<table>
<thead>
<tr>
<th>MAXIMUM CAPACITY OF TABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>BX30</td>
</tr>
<tr>
<td>300kg</td>
</tr>
</tbody>
</table>

NOTE:

The hydraulic cylinder is designed to hold table. As is the nature of the hydraulic system, table lowers very slowly over and extended period of time. Please note the table does not stay at the same position indefinitely.
4-3. Lowering table

⚠️ WARNING

DO NOT put foot or hand in scissors mechanism.

Pull the lowering lever up and table lowers.

4-4. Quick lifting pedal on BX50S

BX50S is equipped with the Quick Lifting Pedal. Table rises 3 times faster with this Quick Lifting Pedal when the table is not loaded.

⚠️ CAUTION

DO NOT use the Quick Lifting Pedal when table is loaded. Hydraulic unit could be damaged.

5. Specifications

<table>
<thead>
<tr>
<th>Mode</th>
<th>Capacity (kg)</th>
<th>Table (mm)</th>
<th>Table Height (mm)</th>
<th>Stroke (mm)</th>
<th>L x W x H (mm)</th>
<th>Pedaling to top (approx. times)</th>
<th>Wheel</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BX30</td>
<td>300</td>
<td>500 • 813</td>
<td>288-880</td>
<td>592</td>
<td>896 • 500 • 1008</td>
<td>25</td>
<td>Rub.100</td>
<td>69</td>
</tr>
<tr>
<td>BX15W</td>
<td>150</td>
<td>500 • 813</td>
<td>380-1390</td>
<td>1010</td>
<td>1000 • 500 • 900</td>
<td>29</td>
<td>Rub.100</td>
<td>92</td>
</tr>
<tr>
<td>BX30S</td>
<td>300</td>
<td>518 • 1010</td>
<td>433-1600</td>
<td>1167</td>
<td>961 • 520 • 1258</td>
<td>55</td>
<td>PU150</td>
<td>138</td>
</tr>
<tr>
<td>BX50</td>
<td>500</td>
<td>518 • 1010</td>
<td>438-1020</td>
<td>582</td>
<td>961 • 520 • 1183</td>
<td>44</td>
<td>PU150</td>
<td>112</td>
</tr>
<tr>
<td>BX50S</td>
<td>500</td>
<td>460 • 1003</td>
<td>418-1040</td>
<td>622</td>
<td>939 • 460 • 944</td>
<td>68</td>
<td>PU130</td>
<td>115</td>
</tr>
<tr>
<td>BX60</td>
<td>500</td>
<td>518 • 1010</td>
<td>438-1020</td>
<td>582</td>
<td>961 • 520 • 1258</td>
<td>63</td>
<td>PU150</td>
<td>115</td>
</tr>
<tr>
<td>BX50W</td>
<td>500</td>
<td>518 • 1010</td>
<td>433-1600</td>
<td>1167</td>
<td>961 • 520 • 1270</td>
<td>90</td>
<td>PU150</td>
<td>151</td>
</tr>
</tbody>
</table>

6. Service Instructions

Before doing the maintenance job, remove the load from the table and block the link with the lock pin to prevent the lowering of table.
6-1. Lubricate each point described below every month:

6-2. Change hydraulic oil every 12 months.

Lubricating Points

(1) Fitting of cylinder ---- Oil
(2) Roller Friction surface ---- Grease
(3) Link pin ---- Oil
(4) Pedal fitting point ---- Oil
(5) Link center pin ---- Oil
(6) Joint ---- Grease
(7) Grease nipple ---- Grease
7. Hydraulic Circuit

LIFTING

LOWERING

SUCTION
DECLARATION OF CONFORMITY

SUGIYASU CORPORATION
4 CHO-ME, 3-21 HONGO-CHO, TAKAHAMA CITY, AICHI, JAPAN

declares in sole responsibility that the following product

referred to in this declaration conforms with the following standard(s) or directive(s):
MACHINE DIRECTIVE 89/392/EEC, EN1570

The company named above will keep on file for review the following technical documentation:

- operation manual as required
- plans
- description of measures designed to ensure conformity
- other technical documentation

Importer/Distributor in EU:

Oct. 1st. 2001 Takahama Japan

T. Niimi, manager, International operations Sugiyasu Corporation

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SUGIYASU CORPORATION

AICHI, JAPAN

Manufactured By
Taiwan Bishamon Industries Corporation
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