

# **Bishamon® Platform Stacker – Fork Model**

## **Operation and Service Manual**

Model – KGL20F, KGL20HF, KGL20SF, KGL20SHF

Model – KGL40F, KGL40HF, KGL40SF, KGL40SHF

### **GETTING STARTED**

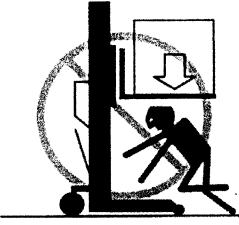

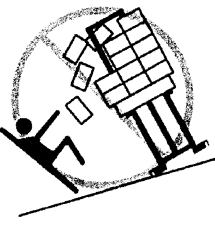
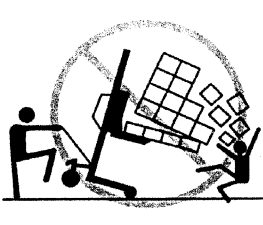
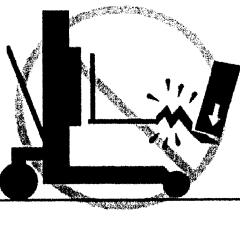
PLEASE READ THIS MANUAL CAREFULLY BEFORE USING THE Platform Stacker. The safety of all persons using or servicing the Platform Stacker is of utmost importance to Bishamon. The Platform Stacker is capable of supporting heavy loads and is capable of causing SEVERE INJURY if used improperly or certain safety precautions are not taken. When properly used and maintained, the Platform Stacker will provide many years of safe, trouble free service. If you have any questions about any of the instructions in this manual or about the use of this product, PLEASE contact your DEALER or Sugiyasu Corporation. Throughout this manual the Platform Stacker may be referred to as the "stacker".

### **Safety Definitions**

In this manual, Bishamon uses the following systems to identify the degree of risk associated with hazards and unsafe practices.

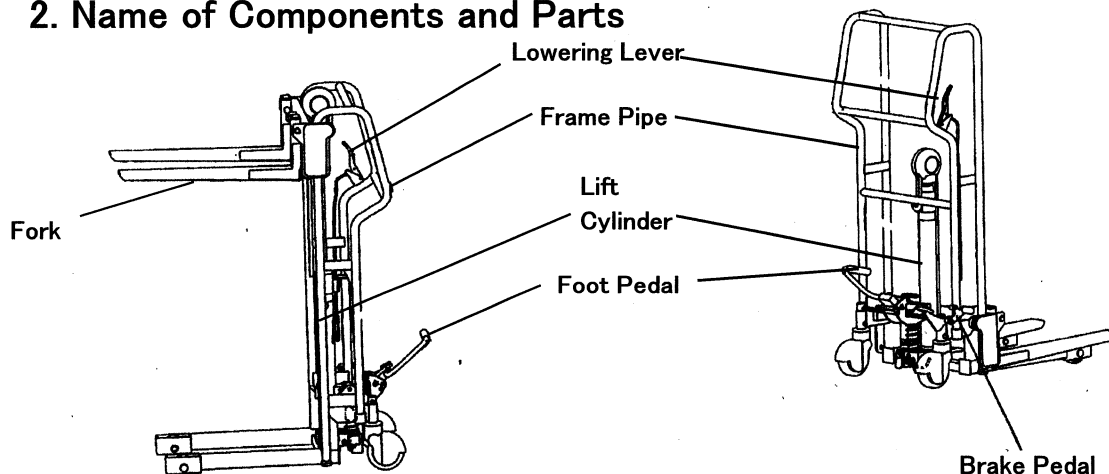
- ⚠ **Warning :** Hazard or unsafe practice which, if not avoided, could result in DEATH or SEVERE PERSONAL INJURY and
- ⚠ **Caution :** Hazard or unsafe practice which, if not avoided, could result in MINOR or MODERATE PERSONAL INJURY and PROPERTY DAMAGE.

### **1 Warnings and Cautions**

<div>⚠ <b>Warnings</b></div>				
				
DO NOT get under platform.	DO NOT ride on platform.	DO NOT USE on the slope or unlevel surface that could result in loss of control to stacker.	DO NOT operate or turn around with load kept at higher position or it may result in falling of load.	Capacity is smaller than rated capacity at the end of forks. DO NOT load only at end of forks.

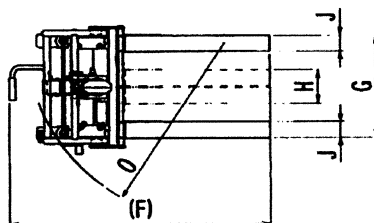
<div>⚠ <b>Cautions</b></div>
<ol style="list-style-type: none"><li>1. READ THIS MANUAL COMPLETELY BEFORE USING AND THOROUGHLY UNDERSTAND AND FOLLOW ALL SAFETY INSTRUCTIONS.</li><li>2. DO NOT exceed the rated load capacity.</li><li>3. KEPP HANDS OFF moving parts such as chain and pulley.</li><li>4. KEEP FEET CLEAR of rolling wheels that could result in severe personal injury.</li><li>5. DO NOT LOAD the platform truck improperly centered on the platform or side to side. ENSURE that the load is evenly distributed. UNBALANCED loads may become unstable and fall. SEVERE PERSONAL INJURY and PROPERTY DAMAGE COULD RESULT.</li><li>6. NEVER modify the platform truck in any manner without the prior written consent of Sugiyasu Corporation.</li><li>7. Perform the regular maintenace according to the manual.</li></ol>

### **2. Name of Components and Parts**

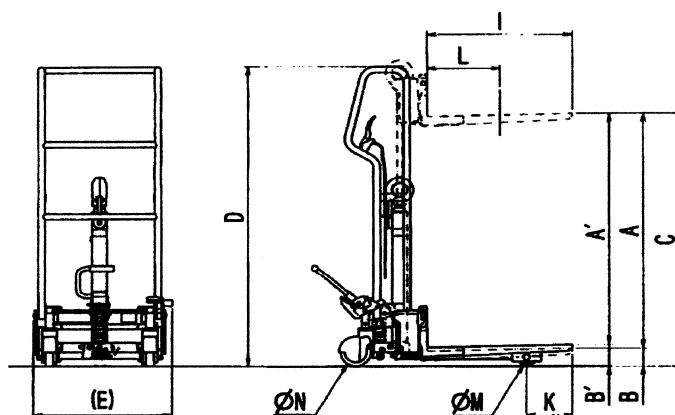
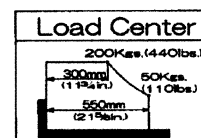


### 3. Specifications

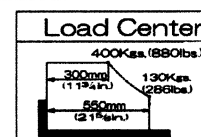
Model No.			KGL20F	KGL20SF	KGL20HF	KGL20SHF	KGL40F	KGL40SF	KGL40HF	KGL40SHF
	Capacity(Kgs)		200				400			
	Frame Pipe		Paint	Stainless	Paint	Stainless	Paint	Stainless	Paint	Stainless
A	Vertical Travel(mm)		655		1025		655		995	
B	Table	Min. Height(mm)	95				95			
C		Max height(mm)	750		1120		750		1090	
D	Overall Height(mm)		1000		1344		1019		1375	
E	Overall Width(mm)		571				626			
F	Overall Length(mm)		1075				1133			
G	Fork Outside Width (Max)		454				495			
H	Fork Outside Width (Min)		148				232			
I	Fork Length (mm)		600				600			
J	Fork Width (mm)		70				110			
K	From Fork End to Front wheel (mm)		190				215			
	Strokes to Max Height without load(Times)	Pump Pedal at High Position	9		13		15		20	
		Pump Pedal at Low Position	13		25		22		32	
	Strokes to Max Height with full load(Times)	Pump Pedal at High Position	16		23		27		39	
		Pump Pedal at Low Position	27		40		45		64	
L	Load Center(mm)		300							
M	Front Wheel Diameter(mm)		80				70			
N	Rear Wheel Diameter(mm)		125							
O	Minimum Turning Radius(mm)		808				846			
	Machine Weight (Kgs)		56		60		84		92	
	Oil Volume (Litter)		0.3		0.4		0.5		0.6	



KGL20(S)F, KGL20(S)HF



KGL40(S)F, KGL40(S)HF



### 4. Preparation for Use

#### ⚠ C a u t i o n s

NEVER OPERATE THE PLATFORM STACKER IF IT MALFUNCTIONS, HAS BROKEN, DAMAGED OR WORN PARTS. USE OF THE PLATFORM STACKER IN THIS TYPE OF CONDITION COULD RESULT IN SEVERE PERSONAL INJURY OR PROPERTY DAMAGE.

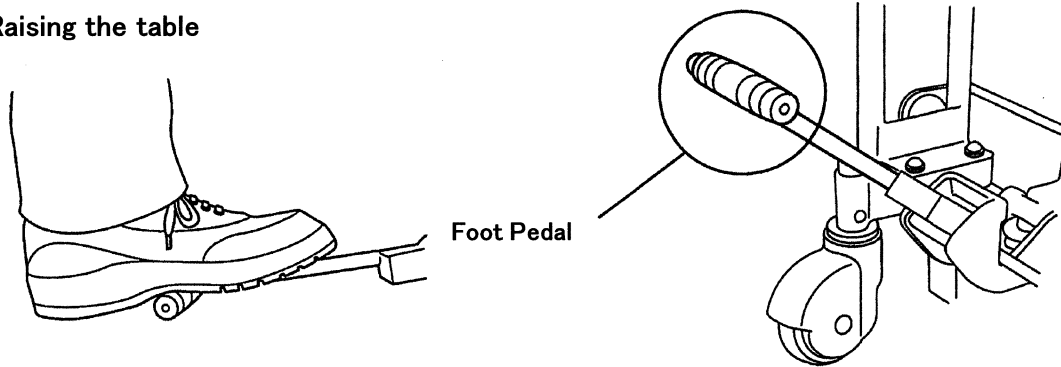
**Daily Inspections. To be performed each day before first operation.**

- 1 Check for any distortion, stress cracks or breaks in welds, materials and castings (Frame Pipe and Table).
- 2 Check hydraulic unit, cylinder and components for oil leakage.
- 3 Check the hydraulic system for proper operation by examining the table in the raised position.
- 4 Check for smooth rolling and free rotation of the wheels.
- 5 Check for rust, crack and kink in chain.(Monthly)
- 6 Check for rust, damage to cable.
- 7 Check for natural lowering.
- 8 Check for the function of brake.
- 9 Check if table rises when pumping the foot pedal.
- 10 Check if table stops lowering when releasing the lowering lever during lowering operation.

## 5. Operating Instructions

Platform stacker (Fork Model) is simple to operate. However, before using the stacker, you should review the foot pedal controls and their operation. ALWAYS follow all safety precautions and warning while operating the stacker.

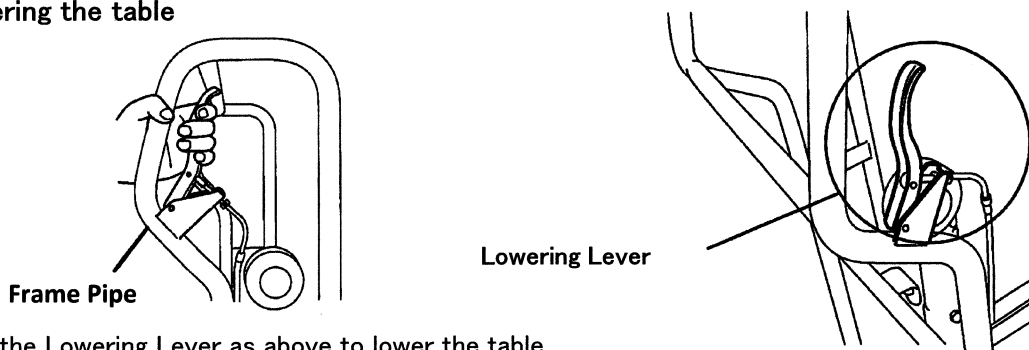
### 1. Raising the table



- ① DO NOT LOAD the platform truck improperly centered on the platform or side to side. ENSURE that the load is evenly distributed.
- ② Table will rise by pumping the Foot Pedal as above. Raise the table upto the required height.

⚠ C a u t i o n s
1. DO NOT exceed the rated load capacity. If the loads are unbalanced on the table, it may damage the table.
2. The stacker has Rapid Rise Feature installed and rises quickly without load. Accordingly strokes to Max Height change depending on the loads.

### 2. Lowering the table



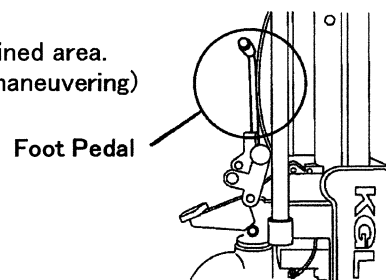
- ① Pull the Lowering Lever as above to lower the table.
- ② Release the Lever to stop the lowering.

⚠ C a u t i o n s
1. Adjust the lever pulling force to adjust the lowering speed depending on the load. If pulling lever straight fully, the platform may lower very fast and may result in falling of load.
2. Be careful not to pinch the fingers between lever and frame pipe during operation.B75
3. DO NOT touch the Lowering Lever during maneuvering the stacker.

### 3. Maneuvering the Stacker

Manuever the stacker slowly by holding the Handle Pipe of inclined area.  
(Keep the Foot Pedal upright position as per illustration during maneuvering)

⚠ C a u t i o n s
1. DO NOT maneuver or swing the stacker with loads (platform) kept at higher position.
2. DO NOT touch the Lowering Lever during maneuvering the stacker.

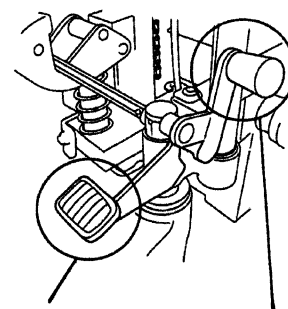


### 4. Brake(Wheel Lock)

Brake(wheel Lock) is located at rigt side caster. (Both wheels are locked at same time firmly)

- ① To Lock the Brake(wheel) – Push Down the Brake Pedal
- ② To Release the Brake – Push Down the Lock Release Pedal

⚠ C a u t i o n s
1. Make sure to lock the Brake except during maneuvering. Or stacker may start to move all of a sudden and may result in accident.

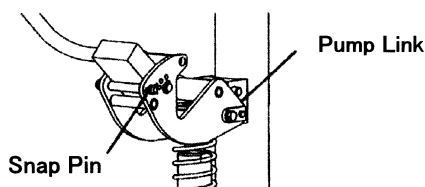


① Brake Pedal

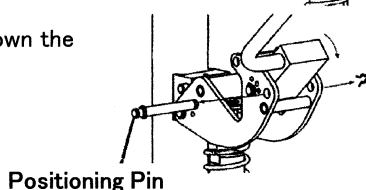
② Lock Release Pedal

## 5. How to change the Foot Pedal height ?

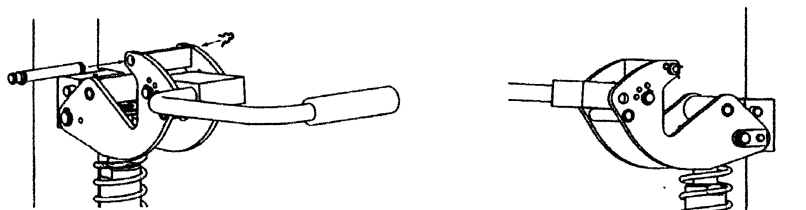
- ① Release the Snap Pin which is holding the Positioning Pin at Pump Link.



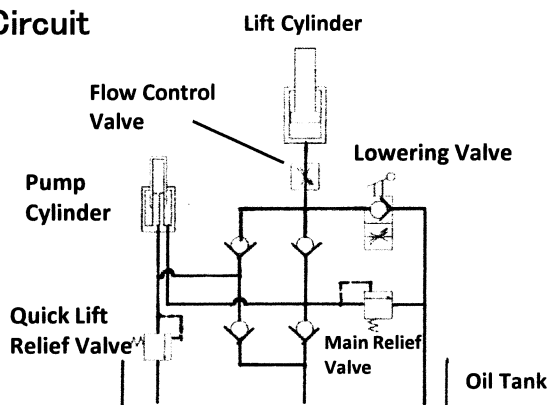
- ② Remove the Positioning Pin and push down the pedal to horizontal.



- ③ Put the Positioning Pin through spare hole, and install the Snap Pin to hold.



## 6. Hydraulic Circuit



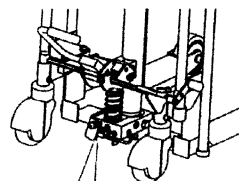
## 7. Routine Maintenance

The Platform Stacker is designed to provide years of trouble free service and requires very little maintenance. However, a routine inspection and maintenance program will prevent costly replacement parts and/or downtime. All service should be performed by a qualified service person, who has an understanding of stackers and their operation.

1. Lubricate the roller sliding areas at platform side.(Every 6 months)
2. Lubricate the pedal pivot pin and shaft parts..(Every 6 months)
3. Replace hyd. Oil.(Every year)

Refer to the spec. for oil volume information.

4. Lubricate the Lowering Lever.(Every week)



### Recommended Hydraulic Oil

Manufacturer	Hydraulic Oil
ESSO	Unipower SQ32
SHELL	Tellus Oil32, K32, W-R Oil 32
MOBIL	Mobil DTE 24
CALTEX	Rando Oil A

Lowering Lever  
Lubricate

## 8. Trouble Shooting

Trouble	Cause	Shooting
Platform does not rise without load	1. Lack of oil 2. Air in the pump cylinder	1. Fill the hydraulic oil. 2. Remove the air
Rapid rise is slow	1. Rapid Rise Relief Valve is loose 2. Rapid Rise Relief Valve is not seating properly	1. Fasten the Rapid Rise Relief Valve 2. Clean the Valve parts or replace
Natural Lowewring	1. Lowering Valve is not closed fully 2. Seating failure of Lowering Valve or cone seat 3. Seating failure of steel ball at check valve 4. Wear of U Packing at Ram Rod	1. Adjust the cable of Lowering Lever 2. Clean the cone seating parts or replace 3. Clean or replace stell ball 4. Replace U Packing
Platform does not lower by Lowering Lever	1. Lowering Valve is not open	1. Adjust the cable of Lowering Lever
Oil Leak	At Pump Piston	1. Replace O Ring 2. Replace U Packing
	At Top Nut	1. Replace O Ring, U Packing 2. Replace Ram Rod
Platform does not stop lowering when releasing the Lever	1. Lack of lubrication to Lowering Lever	1. Lubricate Lowering Lever

## 9. Warranty

We warrant the products manufactured by Sugiyasu Corporation to be free from defects in workmanship and material for 1 year. Our obligation under this warranty is limited to repair or replacement, at our option, of any parts or material which, within this warranty period, are found to our satisfaction to be defective.

The belows are not covered by the warranty.

- 1 The damage or trouble caused by the false operation, negligence of the maintenance and storage required.
- 2 The damage or trouble caused by the modification that affects the originally designed functions.
- 3 Any consumable parts that need to be replaced.
- 4 The damage or trouble caused by natural disaster such as fire, earthquake, flood etc.
- 5 The damage or trouble caused by not using the original manufacturer's parts.
- 6 The required information such as serial No. etc. would not be provided.
- 7 The damage or trouble caused by improper installation.

※ Any consumable parts such as rubber parts etc. are not covered under this warranty.

※ As this stacker is not weatherproof, trouble caused by corrosion, rust, short circuit from water are not covered under this warranty.

### How To Claim

Contact your supplier.

## 10. After Service

- |                                |   |  |
|--------------------------------|---|--|
| • Something is wrong           | ⇒ | Check in accordance with this manual                                       |
| • Something is still wrong     | ⇒ | Contact your supplier for repair.  |
| • Repair under warranty period | ⇒ | Will be repaired in accordance with warranty rules                         |
| • Repair after warranty period | ⇒ | Contact your supplier  |
| • Availability of Spare Parts  | ⇒ | The spare parts is available for 8 years after discontinuing manufacturing |

Contact your supplier for any information regarding to the after service.


When contacting your supplier, provide Model No., Serial No., purchase date and conditions of trouble.

For your records and future contact, fill out below.

Model No.	
Serial No.	
Purchase Date	
Supplier Name Address Tel. No.	
Trouble Date and conditions	Date :
	Date :
	Date :
	Date :

EOM-KGL-17. 01

Manufactured by

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