

Operation and Service Manual

Model - KGL20NHF (Screw Driven Fork Model)

Read this manual carefully and understand completely before operating stackers. 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











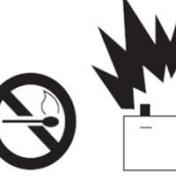

In this manual, 「Warning」, 「Caution」 are defined and specified as below. Notice of Warnings are very important for safe operations. As these are very Important to protect operators from accidents resulting in personal injury and death, and damage to property, so make sure to read thoroughly and understand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

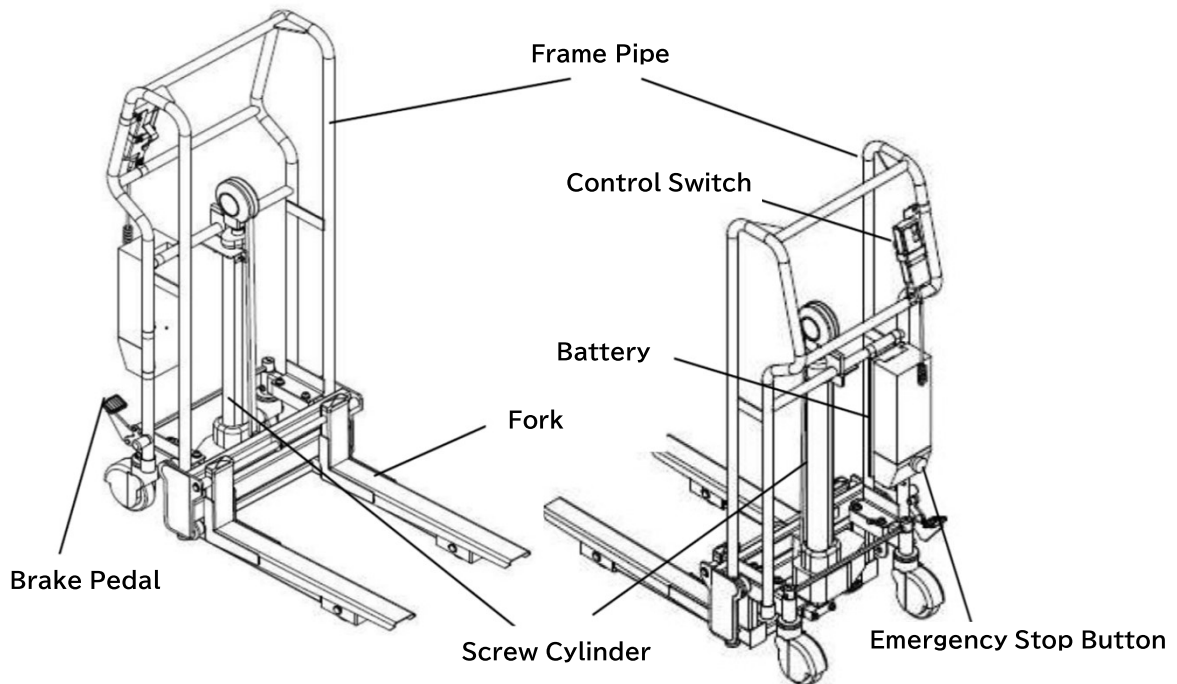
© Hazard or unsafe practice which, if not avoided, may result in DEATH or SEVERE PERSONAL INJURY and PROPERTY DAMAGE.

			
Read the Operation Manual thoroughly before using the Stacker. Important Warnings are described. *Incorrect operation may result in an accident.	NEVER go under forks. SEVERE PERSONAL INJURY or DEATH could result.	NEVER sit, stand or ride on forks. SEVERE PERSONAL INJURY or DEATH could result.	DO NOT use Stacker on slope, unlevel or soft surface. Stacker may become unstable and / or uncontrollable. SEVERE PERSONAL INJURY and PROPERTY DAMAGE could result.
			
DO NOT operate or turn around when load is kept at higher position, or it may result in falling of the load.	DO NOT overload lifter. ALWAYS stay within the designated capacity and load center rating.	DO NOT load on one fork more than other and DO NOT load on tips of forks. SEVERE PERSONAL INJURY or DEATH could result.	USE ONLY in areas clear of all personnel and objects to prevent SEVERE PERSONAL INJURY and PROPERTY DAMAGE.
			
DO NOT use in areas of multi level floor surface that could create loss of control and result in SEVERE PERSONAL INJURY.	KEEP FEET CLEAR of rolling wheels that could result in SEVERE PERSONAL INJURY.	KEEP AWAY from open flame when charging battery. Handle battery after fully reading instruction manual.	SHOCK HAZARD ! Disconnect power and push Emergency Stop Button before handling battery.

⚠ Cautions !

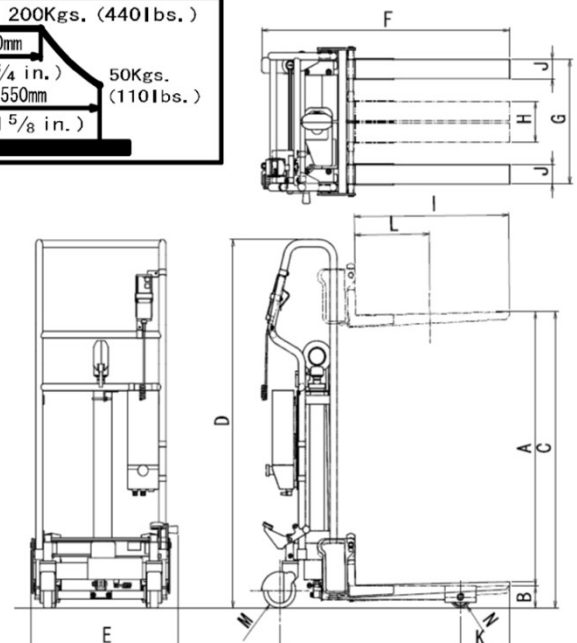
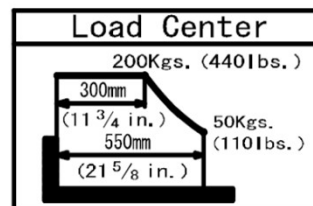
1. READ THIS MANUAL COMPLETELY BEFORE USING AND THOROUGHLY UNDERSTAND AND FOLLOW ALL SAFETY INSTRUCTIONS.
2. DO NOT exceed the rated load capacity.
3. KEPP HANDS OFF moving parts such as chain and pulley.
4. KEEP FEET CLEAR of rolling wheels that could result in severe personal injury.
5. DO NOT LOAD the platform stacker improperly centered on the fork.
ENSURE that the load is evenly distributed. UNBALANCED loads may become unstable and fall.
SEVERE PERSONAL INJURY and PROPERTY DAMAGE COULD RESULT.
6. NEVER modify the platform stacker in any manner without prior written consent of Sugiyasu Corporation.
7. Perform the regular maintenace according to the manual.

1. Name of Components



2. Specifications

Model No.		KGL20NHF
Capacity(kgs)		200
A	Vertical Travel (mm)	980
B	Fork Height	Min. Height (mm) 80
C		Max height (mm) 1,060
D	Overall Height (mm)	1,344
E	Overall Width (mm)	571
F	Overall Length(mm)	963
G	Fork Outside Width (Max - mm)	454
H	Fork Outside Width (Min - mm)	148
I	Fork Length (mm)	600
J	Fork Width (mm)	70
K	From Fork End to Front wheel (mm)	190
	Rising Speed	Without Load (Sec.) 37
	Lowering Speed	37
	Rising Speed	With Full Load (Sec.) 55
	Lowering Speed	37
L	Load Center (mm)	300
M	Rear Wheel Diameter (mm)	125
N	Front Wheel Diameter (mm)	80
O	Minimum Turning Radius (mm)	808
Machine Weight (kgs)		57



3. Preparation for Use

C a u t i o n s

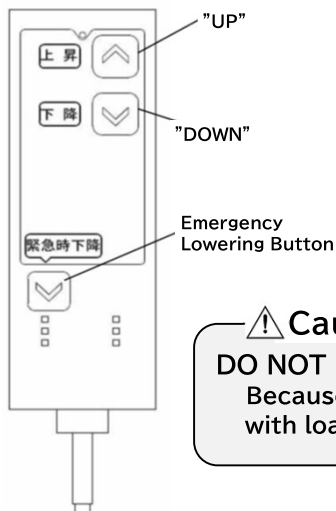
NEVER OPERATE THE PLATFORM STACKER IF IT MALFUNCTIONS, HAS BROKEN, DAMAGED OR WORN PARTS. USE OF THE PLATFORM STACKER IN THIS TYPE OF CONDITION COULD RESULT IN SEVERE PERSONAL INJURY OR PROPERTY DAMAGE.

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 for any distortion, stress cracks or breaks in welds and materials (Fork).
- 3 Check for smooth rolling and free rotation of the wheels.
- 4 Check for rust, crack and kink in chain.(Monthly)
- 5 Check for the function of brake.
- 6 Check if forks rise when pushing "UP" button.
- 7 Check if forks lower when pushing "DOWN" button.
- 8 Check for any abnormal noise from screw cylinder during rising and lowering operation.

4. Operating Instruction

1) Raising (Lifting) Fork



- ① Put load on forks so that CG of the load can be located at center of forks.
- ② Push "UP" button to raise forks. Forks stop rising when releasing button.

Caution

DO NOT keep pushing "UP" button at the top.

Because of the screw cylinder mechanism, if keep pushing "UP" button at the top with loaded, forks could repeat "UP" and "DOWN" movement, but it is not abnormal.

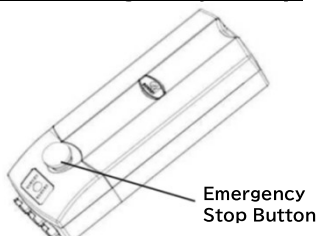
2) Lowering (Lifting) Fork

- ① Push "DOWN" button to lower forks. Forks stop lowering when releasing button.

3) Emergency Lowering

- ① Push "Emergency Lowering" button to lower forks. Forks stop lowering when releasing button.

4) Emergency Stop



- ① Push "Emergency Stop" button to stop.
 - When button is being kept pushed (locked), electricity is not supplied.
 - Turn button clockwise to release locking.

Caution

- DO NOT raise the load which exceeding the stacker capacity.
- DO NOT put the load at fork end. If the CG of the load is located at fork end, even less than capacity load can damage forks.
- When stacker is loaded, lifting speed can be variable depending on loading condition.
- If battery voltage becomes low, stacker can not rise and lower.
(but can be lowered by Emergency Lowering button)

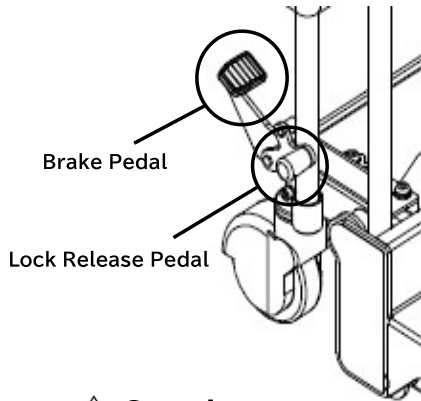
5) Maneuvering Stacker

Hold the Handle Pipe of inclining area and maneuver the stacker slowly.

⚠ Caution

- DO NOT maneuver or swing the stacker with loads kept at higher position.
- DO NOT raise or lower the forks during maneuvering stacker.

6) Brake (Wheel Lock)



Brake (Wheel Lock) is equipped at right side caster.
(Both wheels get locked at same time firmly)

- ① Lock the Brake (wheel)
Push down Brake Pedal
- ② Release the Brake
Push down Lock Release Pedal

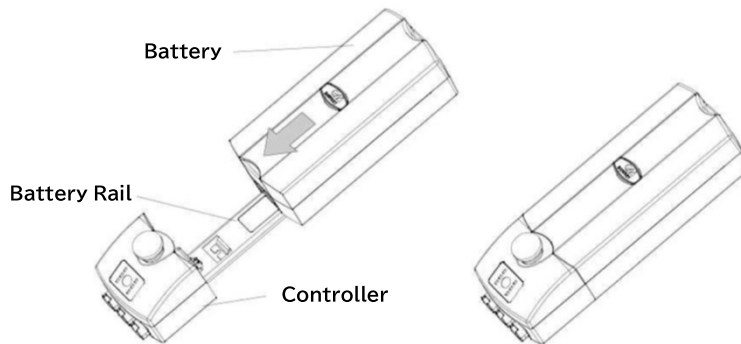
⚠ Caution

Make sure to lock the Brake all the time except during maneuvering. Or stacker may start to move all of a sudden and may result in accident.

5. Battery Installation and Removal

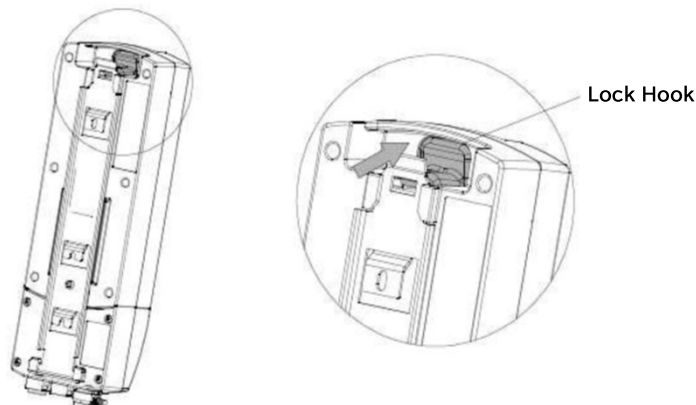
【 Battery Installation 】

Slide the battery along with rail and insert until lock hook clicks into place.



【 Battery Removal 】

Release Lock Hook and then pull up battery.



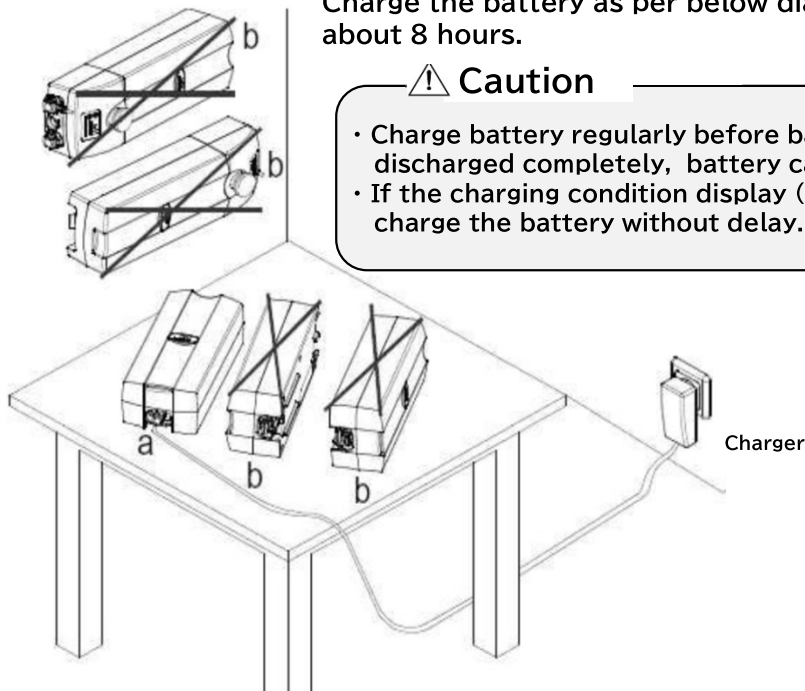
※ Push Emergency Stop Switch and disconnect power before handling battery

Caution

- Use only designated (approved) charger for battery charging
- DO NOT caulk (clog) the ventilation holes at back side of battery.
- Choose a well-ventilated area to charge the battery,
- Stacker can be used in the room temperature of 10°C~40°C.
- DO NOT disassemble, or damage the battery.
- DO NOT expose battery to heat, or Sun.
- DO NOT throw the battery into flames.
- If battery liquid drained and exposed on hands etc., wash out with water and see the doctor.
- Keep battery away from children.
- When disposing battery, ask vendor who is specialized in battery.

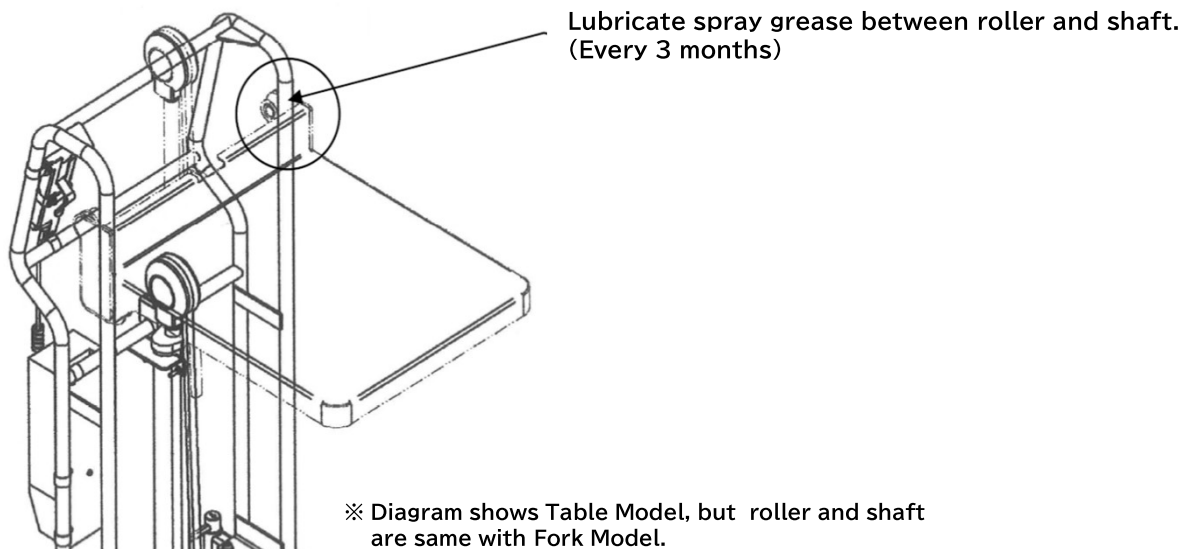
6. Charging the Battery

Charge the battery as per below diagram condition. Charging time is about 8 hours.



7. Periodic Inspection

Perform the periodic inspections for safe operation.



8. Trouble Shooting

The below show how to deal with relatively minor malfunctions. For other further issues, please contact your supplier of this stacker.

Symptoms of malfunction	Possible Cause	Action
Does Not Rise without load	• Insufficiency of a battery	→ Charge battery, or replace battery
	• Loose Motor Cable, or Wiring Breakage	→ Connect Cable, or replace
	• Loose Cable of Switch Button, or Wiring Breakage	→ Connect Cable, or replace
Does Not Lower without load	• Insufficiency of a battery	→ Charge battery, or replace battery (Can be lowered by Emergency Lowering Button)
	• Loose Motor Cable, or Wiring Breakage	→ Connect Cable, or replace
	• Loose Cable of Switch Button, or Wiring Breakage	→ Connect Cable, or replace
Beep sound during operation	• Insufficiency of a battery	→ Charge battery, or replace battery
Does Not Rise with loaded	• Load is exceeding capacity	→ Reduce load to below capacity

9. Disposal

When disposing of this stacker, 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 stacker.

10. 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 to 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 of 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 Stacker 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.

11. 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.

Type	
Serial No.	
Purchase Date	
Stacker Supplier	
Installer	
Trouble Date and conditions	Date :
	Date :
	Date :
	Date :

Bishamon



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