

# **OPERATION AND MAINTENANCE MANUAL**

8024404

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**FORK LIFT**

**CER10·13  
CER14·15·18  
CER20·25**

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## 4. DRIVING LICENSE

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The operator must obtain the driving license for the fork lift operation according to the related regulations.

## 6. BASIC PRECAUTIONS

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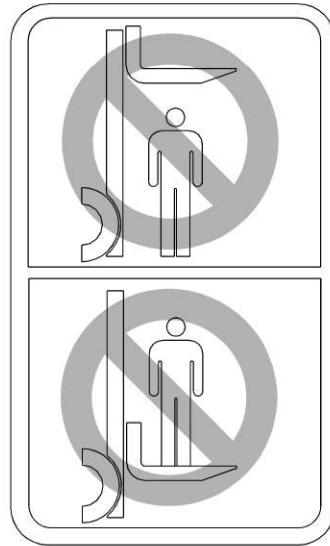
### REDUCTION OF ALLOWABLE LOAD FOR MACHINE WITH ATTACHMENTS

- Allowable load of the machine with any attachments is reduced against the standard machine.
  - Reason 1) Load is reduced due to attachment weight.
  - 2) The center of gravity is moved forward due to attachment weight.
- Do not allow any load in excess of the allowable load table. (Attached to the machine or attachment.)

# 11. ATTACHED POSITION OF SAFETY DECALS

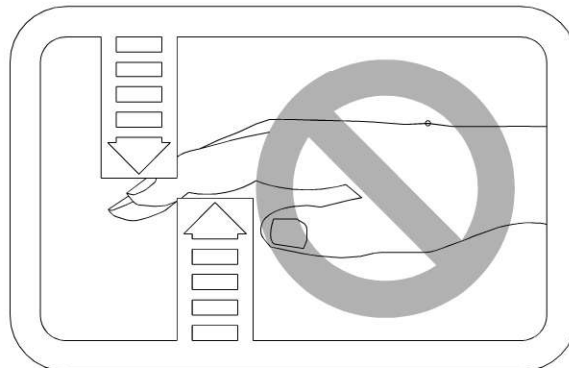
## 11.2 CONTENTS OF SAFETY DECALS

### 1 Safety cautions for forks



FX060

### 2 Safety warning for hands



FX059

### 3 Warning for safety

 **WARNING**

Serious or fatal injury may result to yourself or others if not followed

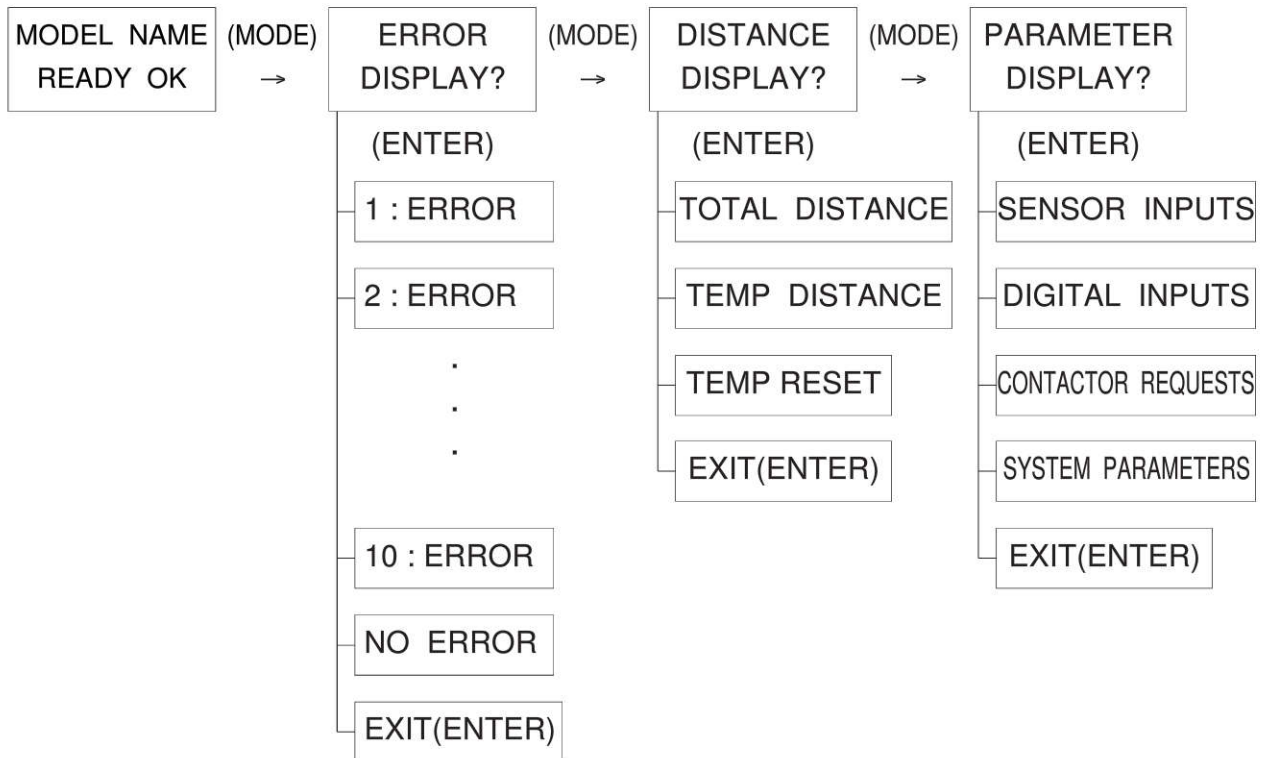
- This fork lift should not be operated by anyone who is not authorized and properly trained.  
Read the Operator's manual carefully and make sure yourself familiar with your fork lift.
- Do not operate a faulty or damaged fork lift.  
Repair work should be done by authorized and trained persons only.
- Keep a careful lookout for people, obstructions and the falling objects on the path of travel.  
If the loads obstruct your view, drive in reverse except climbing a slope.
- If the fork lift is improperly operated, lateral turnover can occur.  
Slow down before turning.  
Do not turn while on a slope.  
Drive carefully, keeping the forks and attachments as low as possible and fully tilted back.
- If the forks or attachments are improperly adjusted or maintained, abrupt dropping may occur. Do not lift any person on the forks.
- Make sure that protective devices against falling objects are equipped.  
The over head guard and the load backrest must be in appropriate location.
- Do not load fork lift over capacity limit designated on the load chart.
- Use the fuses with appropriate capacity. If the battery capacity signal lamp blinks, replenish the battery.  
Replenish it with distilled water every week.
- Before handling the electric parts, make sure the battery connector is removed, and check the poles (positive/negative) of electric parts.

FX943

## 13. DRIVING AND OPERATING

### 1) Mode selection switch

The switch is to shift onto the LCD screen which operator desires. The mode switch usage is as follows. Each time the mode switch is pressed, the mode moves to the arrow directions as shown below.



As shown in the above, all LCD screens except “Model name READY OK” have their lower level modes. Press “ENTER” switch in the pertinent mode to move into the lower level mode. To move into the lower level mode, press the mode switch again. To move into the higher level mode, press “ENTER” in “EXIT(ENTER)” mode at the bottom of screen. If another lower level mode exists in the lower level mode, use “ENTER” switch like the above procedure to move, and press “ENTER” switch in “EXIT(ENTER)” mode to move into the higher level mode.

## 14. BATTERY CHARGING

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- 7 Never pull the plug out while charging. If you want to plug out while charging, press stop button first, and then pull out the plug while holding the body.
- 8 When charging is completed, the lamp on the top of charging sequence display will light up.

### **Note**

Never use the charger in order to control traveling and hydraulic.

### 14.2 EQUAL CHARGING

If you keep using the battery for a certain period, separation material may be produced. It is notified from the differences of gravimeter scale readings, immediately. In this case, equal charging will be required. Perform as follow procedures at every 2 weeks.

- 1 Push the equal charging button as like the way to handle normal charging.
- 2 If Equal charging lamp is ON constantly, charging starts.
- 3 If the gravimeter scale indicates 1.2~1.28 for each cell equally after charging, the battery is charged properly.

**Note 1)** If you pull out battery plug in order to fill up distilled water, the required hours for automatic equal charging become longer, therefore perform equal charging manually.

**Note 2)** In case of the stationary battery, you can't perform automatic equal charging. Therefore, perform periodic equal charging manually.

**Note 3)** If you want to perform automatic charging for keeping the battery warm after a long break time in cold season, automatic charging lamp flickers.

## 19. CHECK BEFORE WORKING

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- 10 Operate the switches for headlight, back light and tail light (option), and turn signal light (option) in order to check that the lamp is ON and OFF. Press the horn button to check that it is sounds.
- 11 Checking Monitor  
In normal operating condition, when the key switch is ON, <System check> is displayed for a few seconds.
- 12 Checking overhead guard and load backrest  
Inspect that the installation bolts and nuts are loose or there are any damaged places.
- 13 Others  
Check that there are any abnormal places and special noises. When checking electric system, disconnect the battery plug.

## 22. INSPECTION AND MAINTENANCE

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If the inspecting and maintenance is surely carried out, an accident can be prevented and the life of machine becomes long. Even if you are busy, fix the date and carry out the periodic inspection so as to increase the working ratio of machine and to reduce the maintenance cost of machine. Also, the hour written in the inspection item is based on 8hours of a day and 200hours of a month. At actual inspecting, make out the schedule in the unit of day and date, etc. Before starting operation, check the periodic inspection schedule, and when that inspection time comes to, check the checking points.

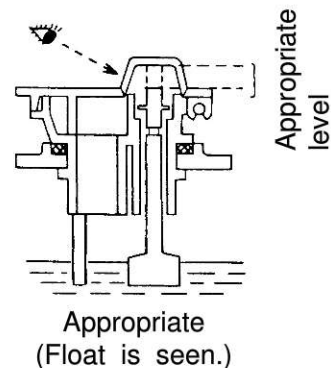
### 22.1 GENERAL CAUTIONS FOR INSPECTION AND MAINTENANCE

- a Use the genuine part of our company to replace a part.
- b Use the recommended oil, especially hydraulic oil, must be the recommended domestic supply oil.
- c To supply oil, clean up the grease on the oiling inlet with brush or cloth at first.
- d To supply or drain oil and to check the oil level, stop the machine on an even ground and carry out.
- e To inspect the electric system, disconnect the battery plug and carry out.

### 22.2 INSPECTION EVERY WEEK (50HR)

#### 1) Inspecting electrolyte

For inspecting the level of electrolyte, check the condition of battery and float from outside. If the float lowers down, fill up the electrolyte immediately. To fill up the distilled water, open the cover completely. When the float goes up and the white line is to be seen, stop filling up the distilled water.



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