

# CRAWLER CRANE

SHOP  
MANUAL

model

**CK2500-II**  
**CKE2500-II**

**KOBELCO**

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BOOK CODE : S5JD00002ZE06



**SAFETY**

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# **SAFETY**



This section explains "Explanation of Warning Description", "Warning Labels" and "General safety"

### EXPLANATION OF WARNING DESCRIPTION

This manual indicates the contents of warnings concerned in safety with the following three stages according to the degree of personal harm and material damage.

Since the very important matters for safety are described, understand the contents sufficiently and observe them without fail.



Warning to avoid dangerous condition resulting in instantaneous death or serious personal injury.



Warning to avoid dangerous condition which has possibility of death or serious personal injury.



Warning to avoid dangerous condition which has possibility to cause slight or medium injury or damage of the machine and equipments.

This manual describes safety warnings sufficiently, but dangerous conditions which are impossible to be anticipated are considered.

Therefore, take measures for safety not only regarding the machine, but also including the working environment.

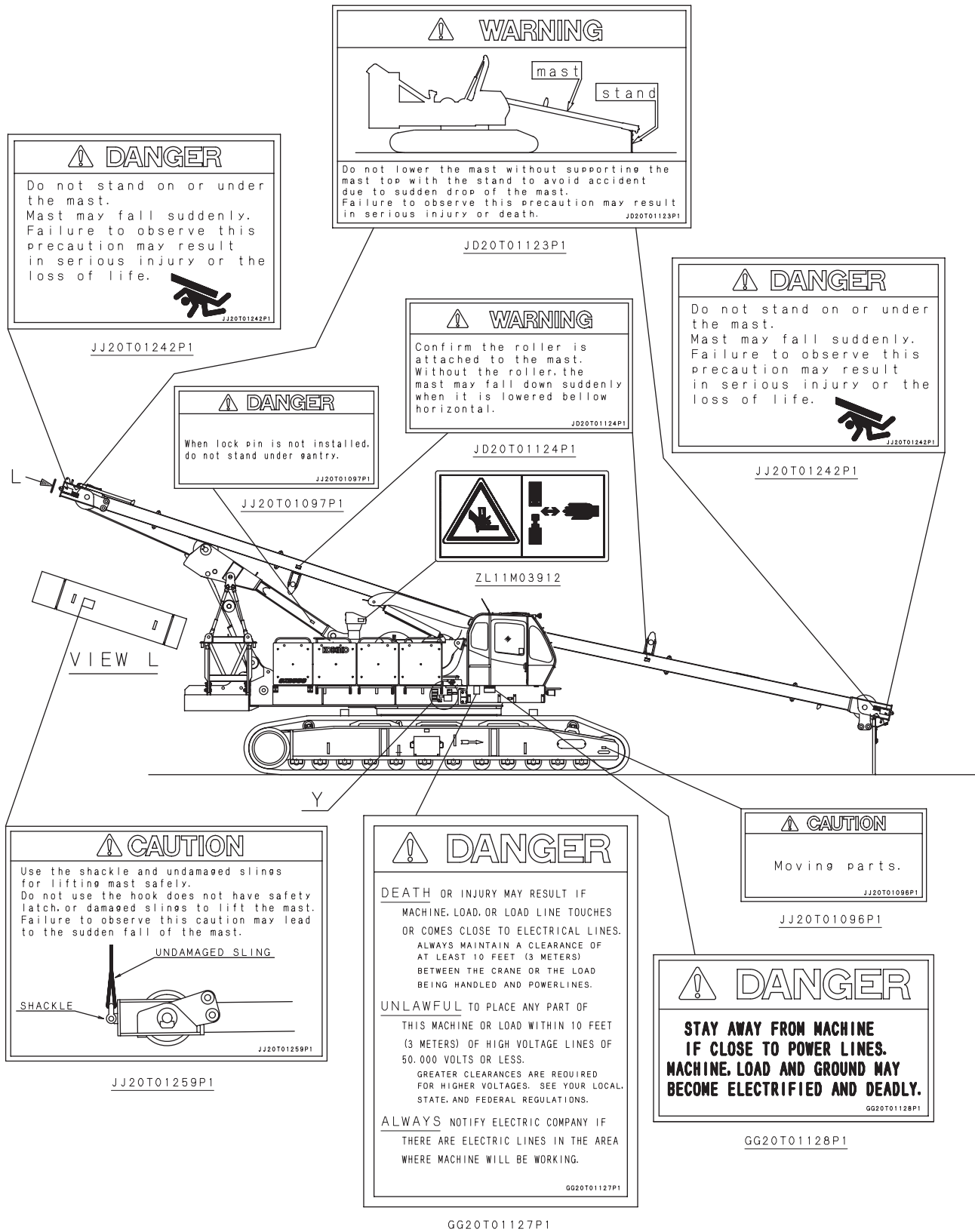
### EXPLANATION OF WARNING LABELS

Since the warning labels are installed in the machine and indicated with the three stages in the same way as the warning description, confirm the positions and contents all warning labels first.

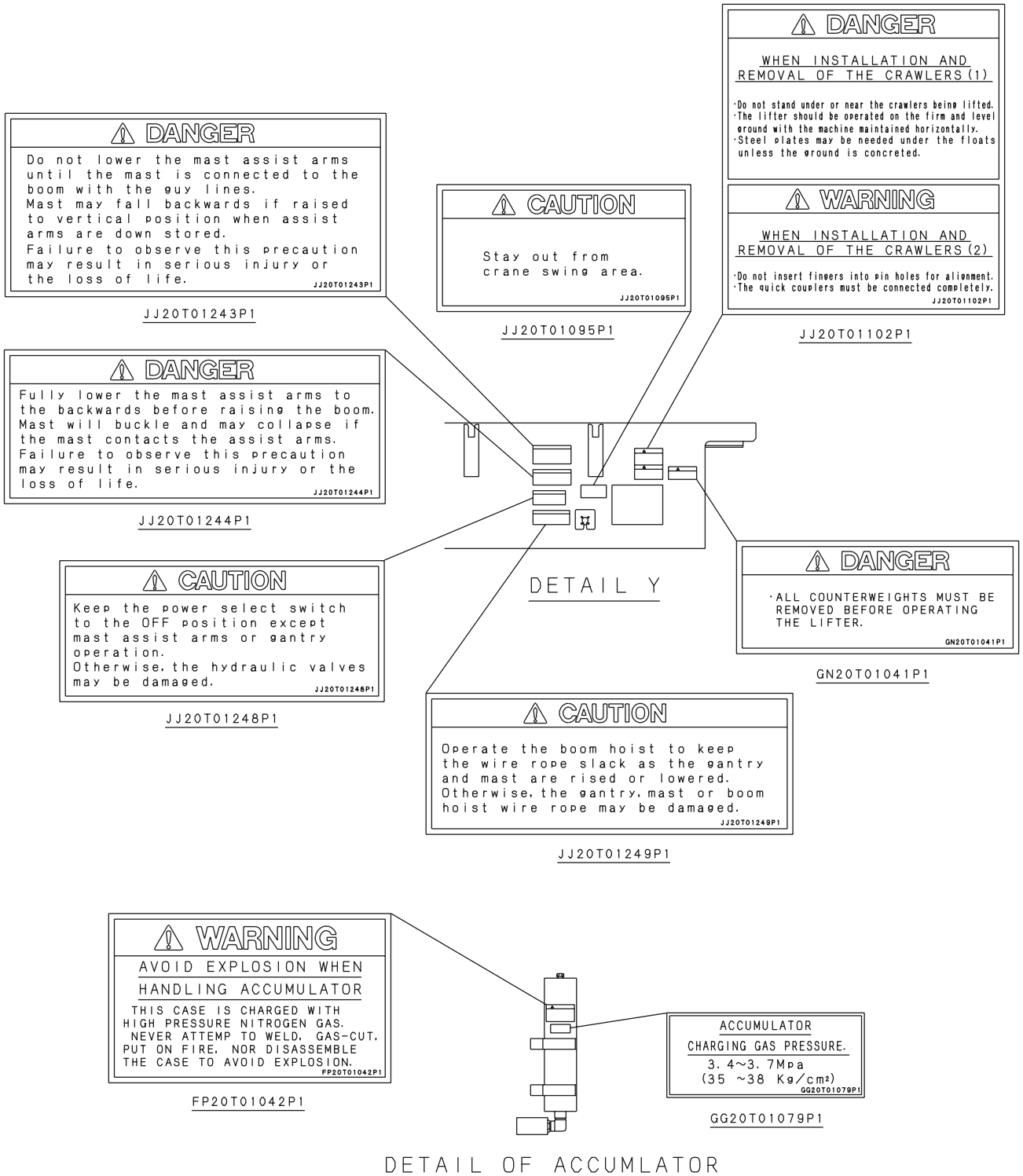
Put them to the practical use to secure safety when operating, checking and performing maintenance.

- HANDLING OF WARNING LABELS

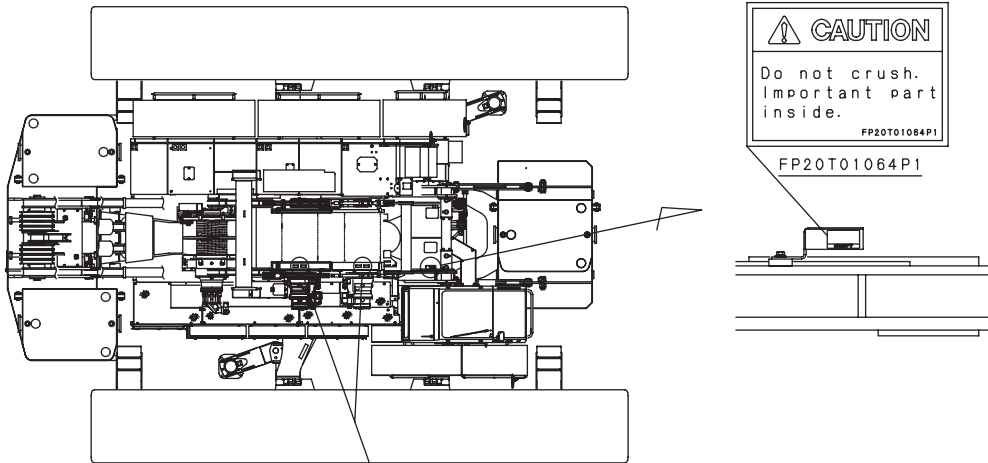
1. When the warning label is damaged or stained, order it to the designated service shop.
2. Do not remove the warning labels.
3. When the surface of the warning label is soiled and difficult to be seen, wipe it cleanly.



**CK2500-II**



**CK2500-II**



**CAUTION**  
Do not crush.  
Important part  
inside.

FP20T01064P1

FP20T01064P1

**CAUTION**  
Moving parts.

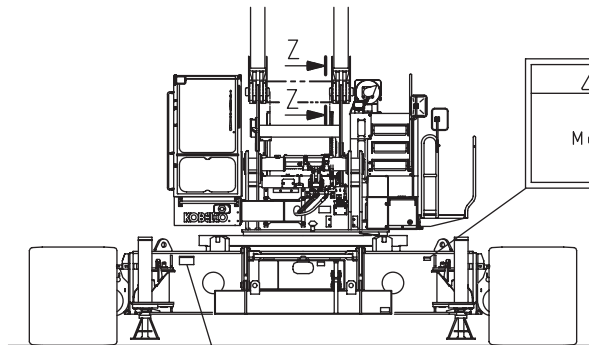
JJ20T01096P1

JJ20T01096P1

**CAUTION**  
Only to open when  
machine is stopped.

JJ20T01100P1

JJ20T01100P1



**CAUTION**  
Moving parts.

JJ20T01096P1

JJ20T01096P1

**DANGER**

Strictly observe following precautions whenever operating the machine when raised on the translifter cylinders to avoid turning over the machine.

**GROUND CONDITIONS**  
Make sure that the ground under the float of the translifter cylinders is firm and level, and capable of supporting machine weight. Level the machine by adjusting the translifter cylinders.

**INSTALLING CARBODY WEIGHTS AND CRAWLERS**  
When on translifters.  
Be sure to install the CARBODY WEIGHTS FIRST and then install the crawlers.  
Be sure to remove the CRAWLERS FIRST and then remove the carbody weights.

Failure to observe above precautions may result in serious accident and injury or death.

Note: See section 4. ASSEMBLY OF THE MACHINE in the operators manual for further information.

JD20T01122P1

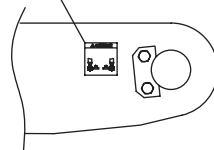
JD20T01122P1

**CAUTION**

The bushing in the foot of mast is coated with plastic material. Insert a pin after the pin hole is aligned completely, and do not hit the pin hard. Failure to observe this caution may lead to damage of the coating of the bushing.

JJ20T01257P1

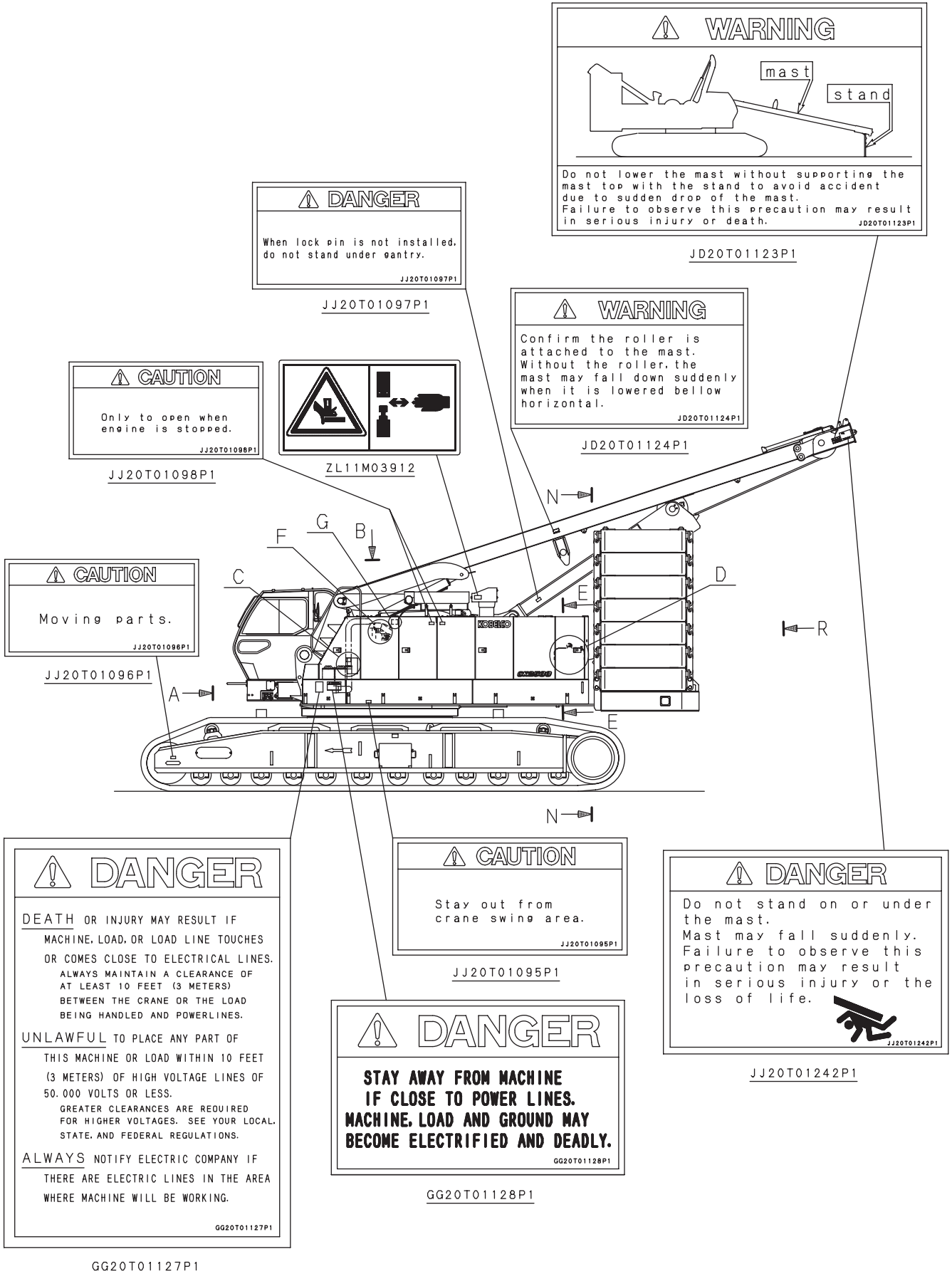
JJ20T01257P1

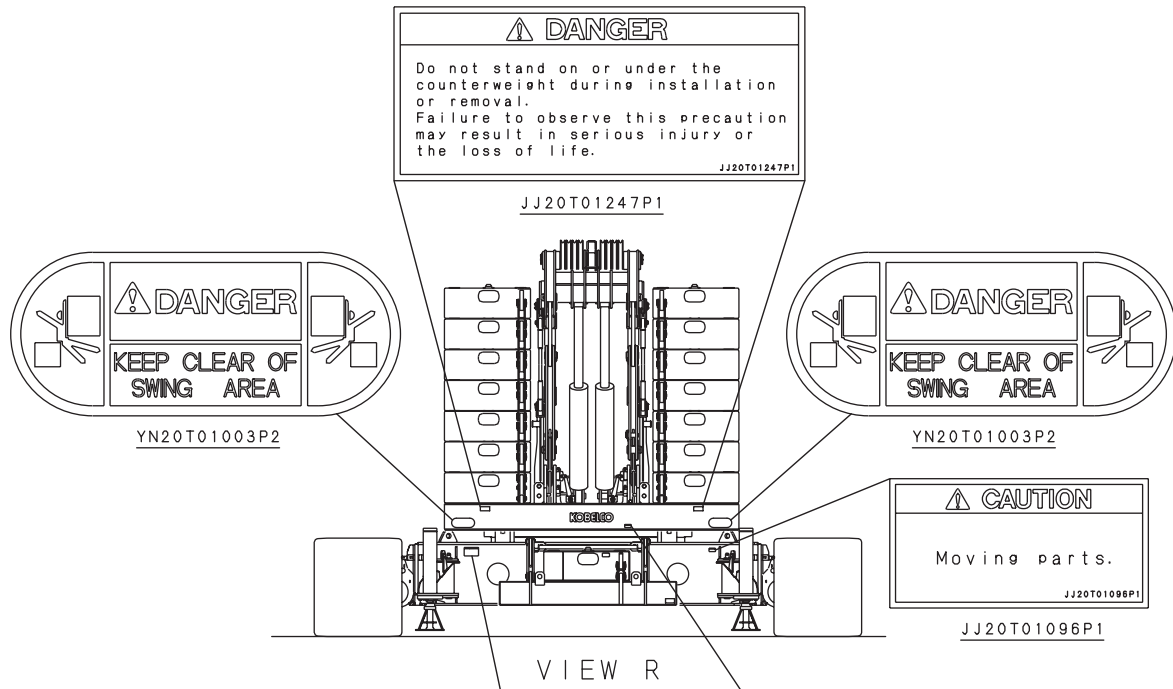


SECTION Z-Z



**CK2500-II**





**⚠ DANGER**

Strictly observe following precautions whenever operating the machine when raised on the translifter cylinders to avoid turning over the machine.

**GROUND CONDITIONS**  
Make sure that the ground under the float of the translifter cylinders is firm and level, and capable of supporting machine weight. Level the machine by adjusting the translifter cylinders.

**INSTALLING CARBODY WEIGHTS AND CRAWLERS**  
When on translifters.  
Be sure to install the CARBODY WEIGHTS FIRST and then install the crawlers.  
Be sure to remove the CRAWLERS FIRST and then remove the carbody weights.

Failure to observe above precautions may result in serious accident and injury or death.

Note: See section 4. ASSEMBLY OF THE MACHINE in the operators manual for further information.

JD20T01122P1

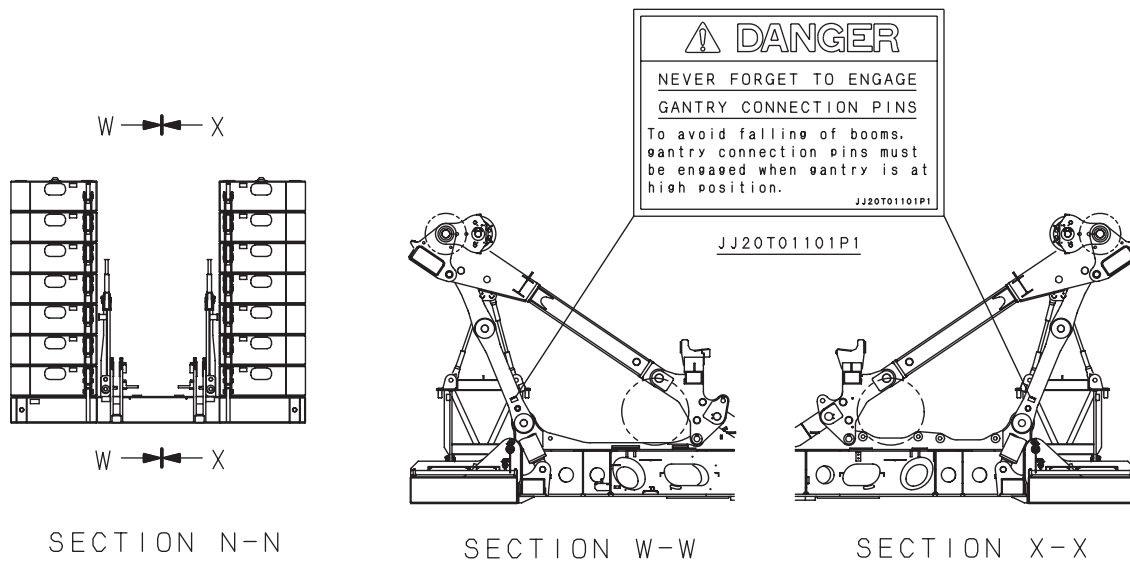
JJ20T01122P1

**⚠ CAUTION**

Stay out from crane swing area.

JJ20T01095P1

JJ20T01095P1



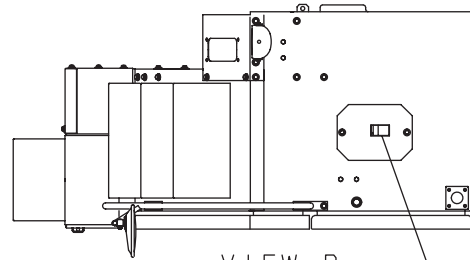
**CK2500-II**



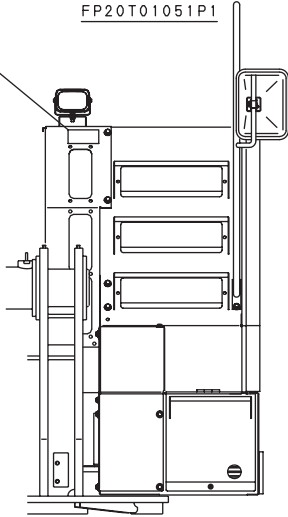
**WARNING**

WALKING ON GUARDS MAY CAUSE STUMBLING AT PROJECTED ITEMS AND SLIPPING BY OIL, WATER, OR GREASE.  
 PROTECTOR SHOULD BE EMPLOYED WHEN WALKING FOR MAINTENANCE JOB. TO AVOID TIPPING OVER AND FALLING DOWN FROM THE MACHINE.

FP20T01051P1



VIEW B



VIEW A



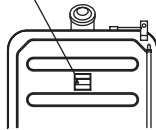
**FUEL TANK**

**CAUTION**


USE DIESEL FUEL ONLY

FP20T01050P1

FP20T01050P1



DETAIL D



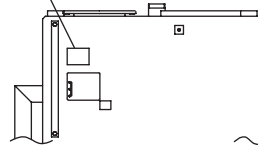
**HYDRAULIC TANK**

**CAUTION**


HIGH TEMPERATURE DO NOT TOUCH

FP20T01049P1

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SECTION E-E




**WARNING**

Steam of hot coolant can cause injury or blindness.  
 Never loosen or open radiator cap when coolant is hot and under pressure.  
 Before opening radiator cap:  
 ·Cool down engine completely.  
 ·Cover radiator with cloth rag.  
 ·Loosen cap slowly to relieve pressure.

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**PREVENT BATTERY EXPLOSION**

- Batteries gives off hydrogen gases that can explode and cause personal injury.
- Keep sparks, open flames and cigarettes away from batteries.
- Keep metallic articles away from batteries.
- Keep all ventilation caps tightly secured.
- Never check charge by placing metal articles across battery terminals.
- Leave battery box open to improve ventilation when charging.

YN20T01001P1


YN20T01001P1


**Rotating parts can cause personal injury.**  
 Keep away from fan and belt when engine is running.  
 Stop engine before servicing.

YN20T01009P1

YN20T01009P1




**CAUTION**

**CAUTION FOR HIGH TEMPERATURE**

AS ENGINES AND MUFFLERS MAY BE HEATED TO HIGH TEMPERATURES. DO NOT DIRECTLY TOUCH THEM BY HAND.

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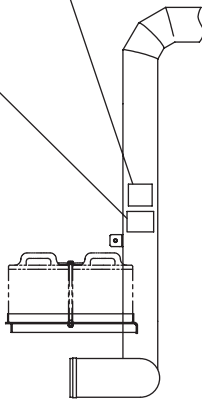


**AVOID ACID BURNS**

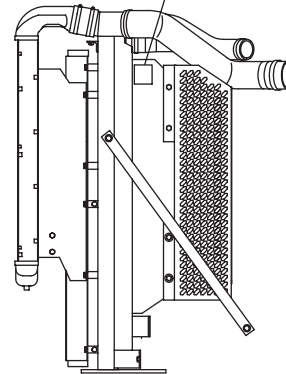
- Electrolyte is an acid and can cause injury or blindness if it contacts skin or eyes.
- Wear eye protection and protective clothing when handling or servicing batteries.
- If electrolyte contacts skin or eyes, flush affected areas immediately with clean water and seek medical attention immediately.

YN20T01017P1

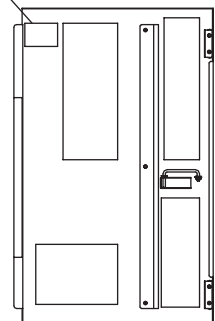
YN20T01017P1



DETAIL C



DETAIL F



DETAIL G

**SAFETY**

**CK2500-II**

**CAUTION**

BE SURE TO SET THE FREE FALL INCREASED SELECTOR SWITCH TO THE "LOCK" SIDE WHEN RE-REEVING THE WIRE ROPE.

WHEN THE BRAKE IS RELEASED WITH THE FREE FALL INCREASED SELECTOR SWITCH SET TO THE "RELEASE" SIDE, THE DRUM IS AUTOMATICALLY ROTATED WITHOUT LOAD.

GG20T01291P1

**WARNING**

Do not support the boom in cantilever style, when the gantry is in the middle or low position.

JJ20T01344P1

**CAUTION**

**LIMIT FOR BOOM CONNECTING LENGTH**

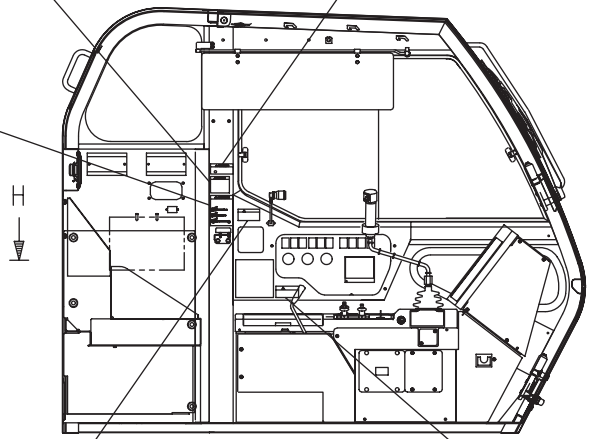
WHEN BOOM IS SUPPORTED IN CANTILEVER STYLE, AND ATTEMPTING TO INCREASE BOOM LENGTH, STRICTLY FOLLOW RESTRICTED LENGTH AS SHOWN.

With boom tip  
36.6m (120ft) and shorter

With aux. sheave  
33.5m (110ft) and shorter

With insert boom only  
41.1m (135ft) and shorter

JD20T01004P1



**DANGER**

WHEN THE GANTRY IS IN THE MIDDLE LOWERD POSITION, DO NOT HOIST THE BOOM, NOR DO NOT LIFT ANY LOAD.

JJ20T01325P1

**CAUTION**

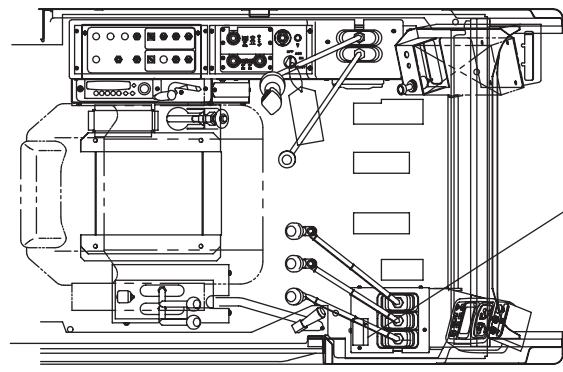
**READ BEFORE OPERATION**

OPERATORS MANUAL SHOULD BE READ AND UNDERSTOOD BEFORE OPERATION. DAILY MAINTENANCE SHOULD ALWAYS BE EXERCISED. ALSO, CAUTIONS NOTED IN RATING PLATES MUST BE OBSERVED DURING OPERATION.

FP20T01047P1

JJ20T01325P1

FP20T01047P1



**DANGER**

CRANE WORK SHOULD BE EXERCISED ON "NEUTRAL BRAKE MODE". OPERATIONS ON "FREE FALL MODE" MAY CAUSE FALLING OF LOADS DUE TO OPERATIONAL ERROR.

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