

OPERATION & MAINTENANCE MANUAL

CK1000-II (LUFFING)

APPLICABLE : From GH03-02004

BOOK CODE : S2GH15001ZE03

(C) Printed in Japan 2007.03

IMPORTANT INFORMATION

1. SAFE OPERATING PRACTICES FOR MOBILE CRANES

2. OPERATION

2.1 TERMINOLOGY OF MACHINE EACH PART 2-1

2.2 LOCATIONS AND TERMS OF OPERATING CONTROLS 2-2

 2.2.1 OPERATING SWITCHES..... 2-4

2.3 LUFFING JIB OPERATION..... 2-5

 2.3.1 LUFFING BOOM RAISING/LOWERING OPERATION..... 2-6

 2.3.2 JIB RAISING/LOWERING OPERATION 2-7

 2.3.3 HOOK RAISING/LOWERING OPERATION..... 2-9

2.4 FREE FALL OPERATION 2-12

3. LOAD SAFETY DEVICE

3.1 LOCATION OF DEVICES 3-1

3.2 TYPE AND FUNCTIONS OF DEVICES..... 3-4

3.3 CONNECTING PROCEDURE OF WIRING 3-11

 3.3.1 LUFFING ATTACHMENT..... 3-11

3.4 FUNCTION OF CONTROLLER/MONITOR 3-17

3.5 OPERATING PROCEDURE OF CONTROLLER..... 3-21

 3.5.1 SETTING SCREEN 3-22

 3.5.2 SETTING OF THE CRANE CONFIGURATION 3-26

 3.5.3 SELECTION OF MAIN/JIB/AUX. LIFTING 3-31

 3.5.4 SETTING OF WORKING AREA LIMIT VALUE..... 3-32

 3.5.5 SETTING OF THE TIME 3-35

3.6 WARNING ALARM AND AUTOMATIC STOP 3-37

 3.6.1 ITEMS OF WARNING ALARM AND AUTOMATIC STOP 3-37

 3.6.2 CONTENTS OF AUTOMATIC STOP 3-38

 3.6.3 RELEASE OF AUTOMATIC STOP 3-40

3.7 INSPECTION..... 3-46

 3.7.1 INSPECTION BEFORE RAISING THE BOOM AFTER ASSEMBLY OF
 ATTACHMENT IS COMPLETED 3-46

 3.7.2 INSPECTION AFTER ERECTING THE ATTACHMENT..... 3-50

3.8 CAUTION FOR HANDLING THE LOAD SAFETY DEVICE..... 3-51

3.9 INDICATION OF ERRORS AND REMEDY 3-52

3.10 INDICATION OF MESSAGE AND ALARM..... 3-53

3.11 CONFIRMATION OF FUNCTION FOR LOAD SAFETY DEVICE 3-55

TABLE OF CONTENTS

4. ASSEMBLY/DISASSEMBLY OF CRANE ATTACHMENT WITH LUFFING JIB

4.1	ASSEMBLY OF LUFFING ATTACHMENT	4-3
4.1.1	ARRANGEMENT OF BOOM/ JIB/ GUY LINE.....	4-3
4.1.2	REMOVING CRANE BOOM AND GUY LINE	4-11
4.1.3	INSTALLING LUFFING BOOM BASE.....	4-11
4.1.4	INSTALLING THE BACKSTOPS TO THE REVOLVING FRAME.....	4-12
4.1.5	INSTALLING SPECIAL INSERT BOOM (WITH IDLER SHEAVE)	4-12
4.1.6	CAUTION FOR CANTILEVER	4-13
4.1.7	CONNECTING LUFFING BOOM TIP ASSEMBLY	4-14
4.1.8	INSTALLING JIB ATTACHMENT	4-16
4.1.9	ASSEMBLY OF JIB	4-16
4.1.10	INSTALLING STRUT GUY LINE.....	4-17
4.1.11	INSTALLING JIB HOIST WIRE ROPE	4-18
4.1.12	CONNECTING STRUT GUY LINE AND STRUT BACKSTOP	4-19
4.1.13	INSTALLING JIB GUY LINE.....	4-23
4.1.14	REEVING OF FRONT AND REAR DRUM WIRE ROPES.....	4-24
4.1.15	CONNECTING SAFETY DEVICE	4-27
4.2	ERECTING THE LUFFING ATTACHMENT	4-30
4.2.1	CONFIRMATION BEFORE ERECTING THE LUFFING ATTACHMENT	4-30
4.2.2	ERECTING LUFFING ATTACHMENT	4-31
4.2.3	CHECK BEFORE STARTING THE WORK.....	4-34
4.3	LOWERING THE ATTACHMENT	4-35
4.3.1	LOWERING THE ATTACHMENT	4-35
4.4	DISASSEMBLY OF LUFFING ATTACHMENT	4-39
4.4.1	DISCONNECTION OF WIRING FOR SAFETY DEVICE	4-40
4.4.2	WINDING UP THE FRONT DRUM/REAR DRUM WIRE ROPES	4-40
4.4.3	DISASSEMBLY OF JIB	4-41
4.4.4	DISASSEMBLY OF LUFFING BOOM TIP ASSEMBLY	4-44
4.4.5	DISASSEMBLING INSERT BOOM	4-46
4.4.6	REMOVING BASE BOOM	4-46
4.5	CAUTION WHEN TRANS-PORTING LUFFING BOOM TIP ASSEMBLY	4-47

5. WIRE ROPE

5.1	SPECIFICATION OF WIRE ROPE	5-1
5.2	WIRE ROPE LENGTH	5-1

6. MAINTENANCE

6.1	CHECKS	6-6
6.1.1	CHECKS OF THE UPPER	6-6

TABLE OF CONTENTS

6.2	OIL/GREASE SUPPLY.....	6-12
6.2.1	ATTACHMENT	6-12
6.2.2	GREASE.....	6-14
6.2.3	HYDRAULIC OIL	6-15

7. REFERENCE MATERIALS

7.1	SPECIFICATION.....	7-1
7.1.1	PERFORMANCE.....	7-1
7.2	DIMENSIONS AND WEIGHT OF EACH PARTS.....	7-3
7.2.1	ATTACHMENT	7-3
7.3	SYSTEM SCHEMATIC.....	7-6
7.3.1	ELECTRICAL WIRING SCHEMATIC.....	7-6

TABLE OF CONTENTS

IMPORTANT INFORMATION

Thank you for your purchasing KOBELCO crawler crane. Our CK series full-hydraulically operated crawler crane, is manufactured based on our many years of experience and expertise. This manual describes important information about Model CK1000-II.

Before operating the machine, be sure to thoroughly read this manual in order to use the machine safely and efficiently.



Do not operate or maintain this machine until you read this manual and understand the instructions. Improper operation or maintenance of this machine may cause accidents and could result in serious injury or death.

Always keep this manual in the operators cab.

If it is missing or damaged, place an order to a KOBELCO authorize distributor for a replacement.

If you have any questions, please consult your KOBELCO authorize distributor.


SAFETY INFORMATION

Most accidents, which occur during operation, are due to neglect of precautionary measures and safety rules. Sufficient care should be taken to avoid these accidents.

Erroneous operation, lubrication or maintenance services are very dangerous and may cause injury or death of personnel.

Thus, precautionary measures, or notes, written in this manual should be read and understood by personnel before starting each task.

Operation, inspection, and maintenance should be carefully carried out, and safety must be given the first priority.

Messages of safety are indicated with  marks. The safety information contained in this manual is intended only general safety information.

Messages of safety appear in this manual and on the machine. All messages of safety are identified by the words "DANGER", "WARNING" and "CAUTION". These words mean the following:



Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against possible damage to the machine and its components.

Note

Supplementary explanation.

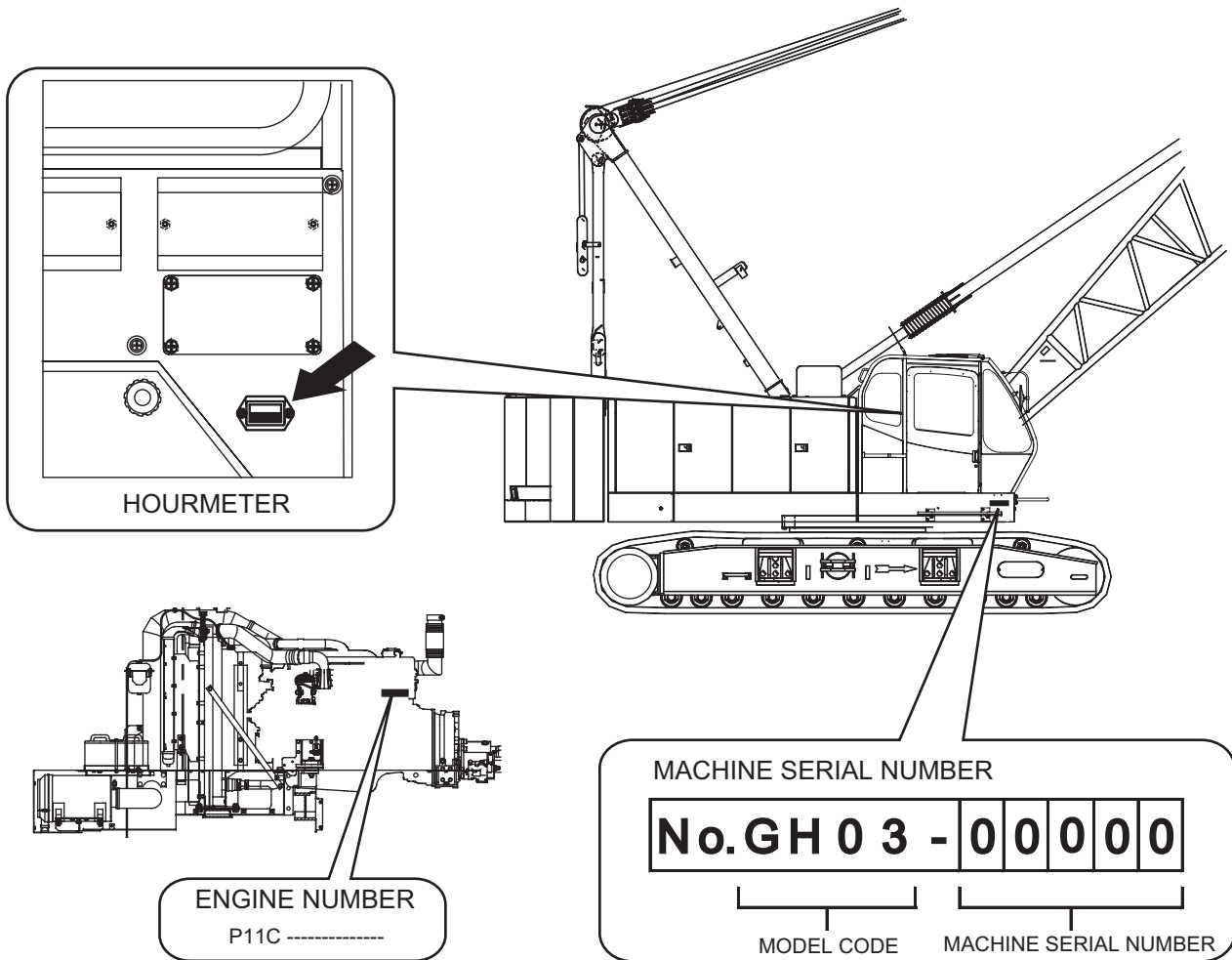
It is very difficult for us to forecast every danger that may occur during operation. However, safety can be ensured by operating this machine according to methods recommended by KOBELCO. While operating machine, be sure to perform work with great care, so as to not damage the machine, or let accidents occur.

Please continue studying this manual until proper operation is completely understood.

IMPORTANT INFORMATION

MACHINE SERIAL NUMBER

When you order repair parts and when you need repair or service of the machine, always inform us the machine serial number stamped on the name plate and the total number of hours indicated on the hourmeter which is located in the gauge.



ENTER MACHINE SERIAL NUMBER OF THIS MACHINE

MACHINE MODEL	CK1000-II	MACHINE SERIAL No.	GH03-	ENGINE No.	P11C-
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WARRANTY

The terms under which this machine is guaranteed are clearly defined in the accompanying WARRANTY. Trouble and damage occurred during the terms of guarantee shall be repaired at no cost to the purchaser according to the warrant description if the trouble or damage is recognized to be our responsibility. However, if you use the machine contrary to the instructions of this manual, the WARRANTY does not cover any damage to the machine.

REPAIR PARTS

When servicing and repairing the machine, be sure to use genuine parts in order to make the machine performance display sufficiently. Since the important security parts are prepared to ensure safety and to protect the machine from an serious accident, be sure to replace them every specified period of time.

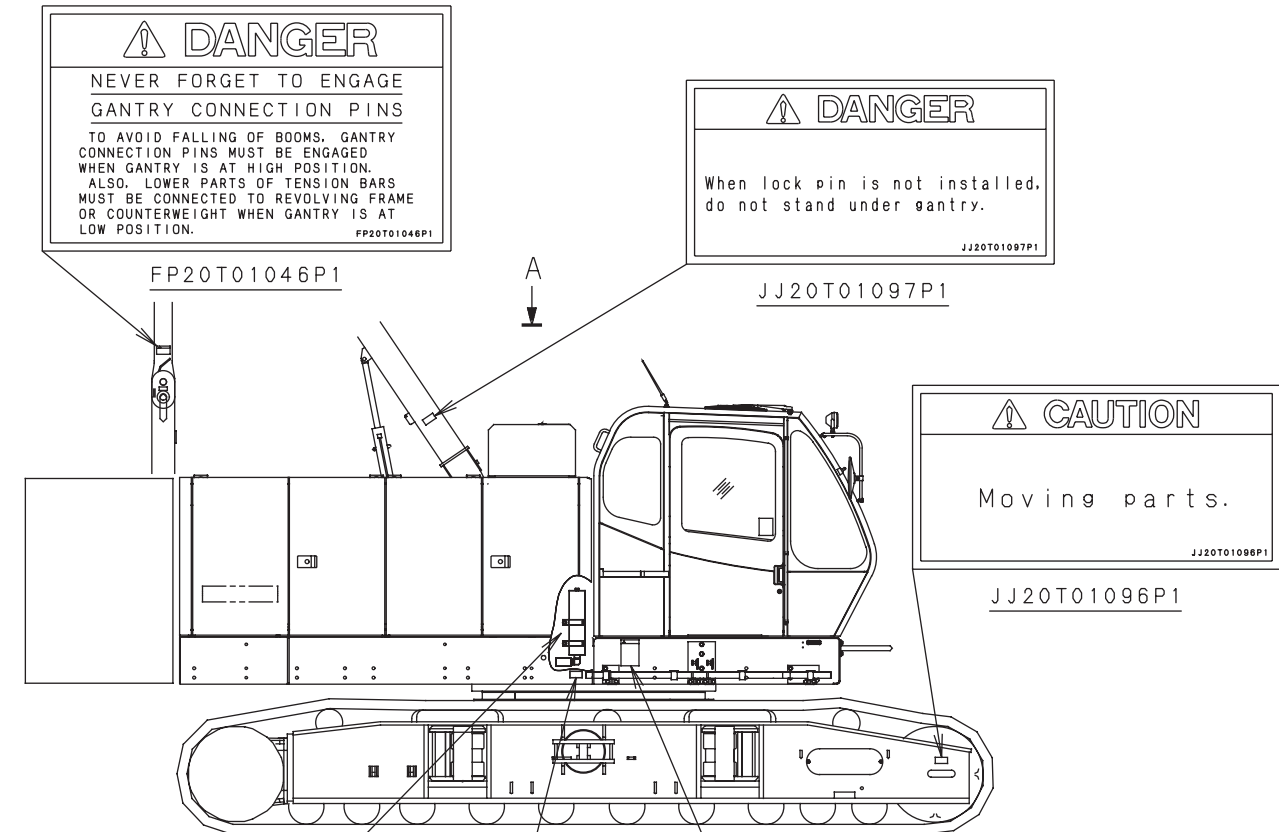
EXPLANATION OF WARNING LABELS

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 of 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.

IMPORTANT INFORMATION



⚠ DANGER
 NEVER FORGET TO ENGAGE
 GANTRY CONNECTION PINS
 TO AVOID FALLING OF BOOMS, GANTRY
 CONNECTION PINS MUST BE ENGAGED
 WHEN GANTRY IS AT HIGH POSITION.
 ALSO, LOWER PARTS OF TENSION BARS
 MUST BE CONNECTED TO REVOLVING FRAME
 OR COUNTERWEIGHT WHEN GANTRY IS AT
 LOW POSITION.
 FP20T01046P1

⚠ DANGER
 When lock pin is not installed,
 do not stand under gantry.
 JJ20T01097P1

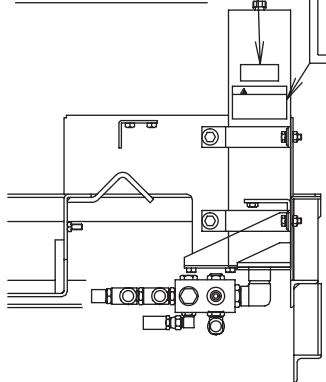
⚠ CAUTION
 Moving parts.
 JJ20T01096P1

⚠ CAUTION
 Stay out from
 crane swing area.
 JJ20T01095P1

⚠ DANGER
 DEATH OR INJURY MAY RESULT IF
 MACHINE, LOAD, OR LOAD LINE TOUCHES
 OR COMES CLOSE TO ELECTRICAL LINES.
 ALWAYS MAINTAIN A CLEARANCE OF
 AT LEAST 10 FEET (3 METERS)
 BETWEEN THE CRANE OR THE LOAD
 BEING HANDLED AND POWERLINES.
 UNLAWFUL TO PLACE ANY PART OF
 THIS MACHINE OR LOAD WITHIN 10 FEET
 (3 METERS) OF HIGH VOLTAGE LINES OF
 50,000 VOLTS OR LESS.
 GREATER CLEARANCES ARE REQUIRED
 FOR HIGHER VOLTAGES. SEE YOUR LOCAL
 STATE, AND FEDERAL REGULATIONS.
 ALWAYS NOTIFY ELECTRIC COMPANY IF
 THERE ARE ELECTRIC LINES IN THE AREA
 WHERE MACHINE WILL BE WORKING.
 GG20T01127P1

ACCUMULATOR
 CHARGING GAS PRESSURE.
 3.4~3.7 Mpa
 (35 ~38 Kg/cm²)
 GG20T01079P1

⚠ WARNING
 AVOID EXPLOSION WHEN
 HANDLING ACCUMULATOR
 THIS CASE IS CHARGED WITH
 HIGH PRESSURE NITROGEN GAS.
 NEVER ATTEMPT TO WELD, GAS-CUT,
 PUT ON FIRE, NOR DISASSEMBLE
 THE CASE TO AVOID EXPLOSION.
 FP20T01042P1



DETAIL C
 (ACCUMULATOR)

GG20T01127P1