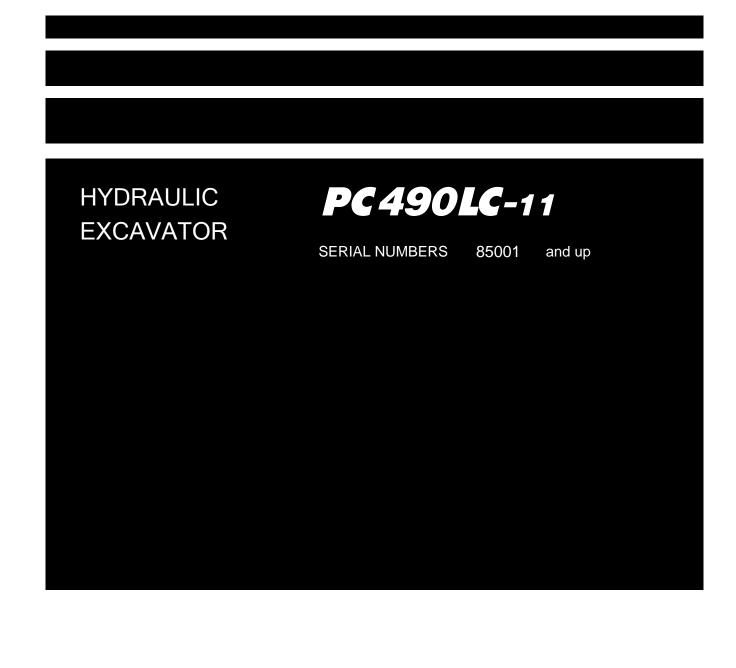
#### Komatsu Hydraulic Excavator Pc490lc 11 Field Assembly Instruction

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# **Field Assembly Instruction**





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### FOREWORD

Since this machine is large in size, it is divided into some units to meet the transportation conditions and regulations applied to the transportation route when shipped from our factory.

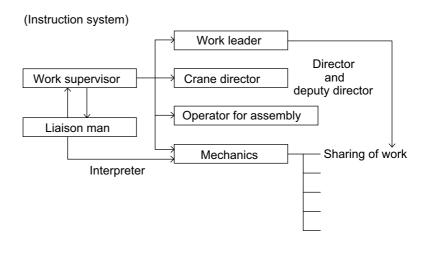
This manual describes how to assemble the units into the complete machine in the field. We hope that this machine will display its quality and you will use it safely according to the operation manual.

Many units are large in size and heavy in weight and may be handled in a dangerous place or posture and many workers may have to work together to sling them with cranes.

Accordingly, before starting the assembly work, the work supervisor is required to hold a safety meeting to oblige the workers to put on protective gear and appoint a work leader and a crane work signal man and allot roles to all the workers for safe work.

In particular, the above meeting is more important when worker of different languages and customs work together.

The following is a reference supervision system diagram.



Note that this manual does not describe the whole specification of the machine but describes only the basic specification.

If you have any question when dividing and transporting the machine by yourself in future, ask one of our distributors.

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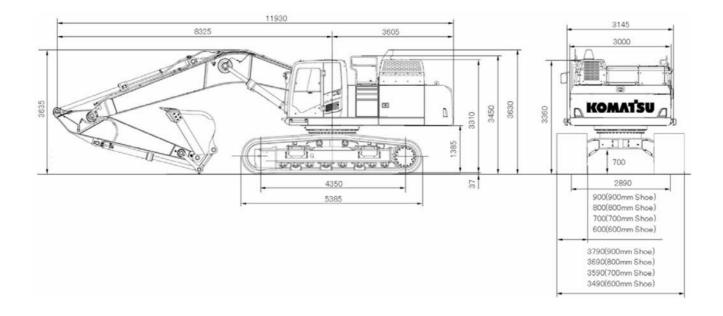
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Mounting bolt torque check sheet Field assembly inspection report (Backhoe)

# **Specifications**

Machine model			PC490LC-11
Weight of machine		kg	47,040
Bucket capacity		m <sup>3</sup>	1.9
Engine model		—	KOMATSU SAA6D125E-7
Flywheel horsepower	SAE J1995 (Gross)	- kW/min <sup>-1</sup> {HP/rpm} -	270/1,900{362/1,900}
	ISO 9249/SAE J1349 (Net)		268/1,900{359/1,900}
Min. ground clearance		mm	700
Travel speed (Low/High)		km/h	3.0/4.2/5.5
Swing speed		rpm	9.1

#### PC490LC-11



## Precautions for field assembly

#### 1. Selection of work place

- 1) When selecting a work place, consider the following.
  - Is the work place sufficiently wide for loading and unloading the machine? (See the kit layout drawing.)
  - Is the ground sufficiently hard? (The machine and crane truck must not sink into the ground.)
  - Is the ground flat? (The ground surface must not be uneven or sloping.)
  - Is the road to inlet/outlet of the work place sufficient for turning the trailer and crane truck?
- 2) Take care extremely that dirt or water will not enter the hydraulic circuit while it is assembled.
- 3) Avoid working outdoors while strong wind is blowing or it is raining.
- 4) Take measures to protect the machine from sand, dirt and rainwater while the work is stopped.

#### 2. How to do work

The work supervisor or the work leader should not do the work while reading this manual but should read and understand this manual thoroughly and then start the work.

In particular, write the "Precautions" for each work process in a sheet to explain or stick that sheet to the work place so that all the workers will observe the precautions.

#### 3. Preparation and check of protective gear, slings and tools

The work supervisor or the work leader must perform the following checks about protective gear, slings and tools.

- 1) Are all the workers wearing helmets and other protective gear which they are obliged to wear? If special protective gear is necessary, check that it is prepared and can be used without problem.
- 2) Are all the slings and tools prepared? Check in advance that they are ready to be used without problem. In particular, check wooden blocks for internal decay and cracking.

### 4. A Check during actual work

The work supervisor or the work leader must check the following items constantly and make all the workers observe them.

- 1) Are the parking brakes of the trailer and crane truck applied securely and are their wheels locked with chocks during work? Are outriggers, if installed, used securely?
- 2) Are the temperature and pressure of the engine, hydraulic oil, coolant, etc. lowered sufficiently during work?
- 3) Is horn or another signal is made to warn around when the engine is started? In addition, is it checked that work equipment control lever and other control levers are in neutral and the fuel control dial (or fuel control lever) is in the low idle position?
- 4) Is the balance of the slung item checked extremely during sling work with the crane?
- 5) Is entry prohibition for outsiders to the work place observed?
- 5. The work supervisor or the work leader is required to hold a meeting with all the workers at the beginning of every morning and explain the work plan of the day to them and give them instructions to observe the safe work.

### **Disposal of removed parts**

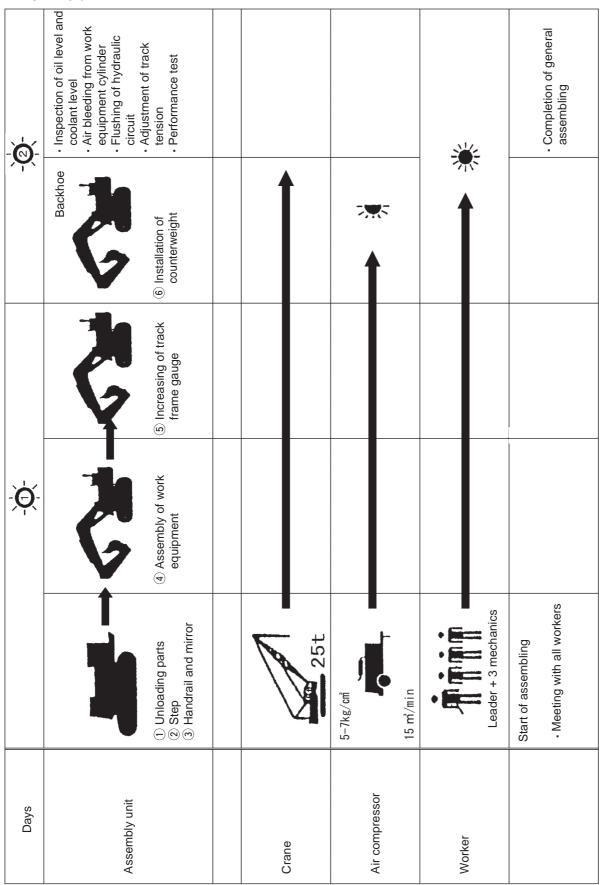
As described in "FOREWORD", when this machine is transported, it is divided into some units such as the body, undercarriage, cab, work equipment, etc. according to the transportation measure, regulations, etc.

Accordingly, the hydraulic pipings and hydraulic hoses to connect the units, oil inlets and outlets of the hydraulic devices, and parts which must not be damaged are plugged or covered to prevent oil leakage, entry of dirt and dust, and damage during transportation.

In addition, fixing jigs are used to prevent a trouble caused by a fall or a shake during transportation and to facilitate loading, unloading and crane work.

The above plugs, jigs, etc. are removed when the machine is assembled and become unnecessary after completion of the machine. Since they are useful when the machine needs to be transported in future, however, we recommend you to keep them as long as possible.

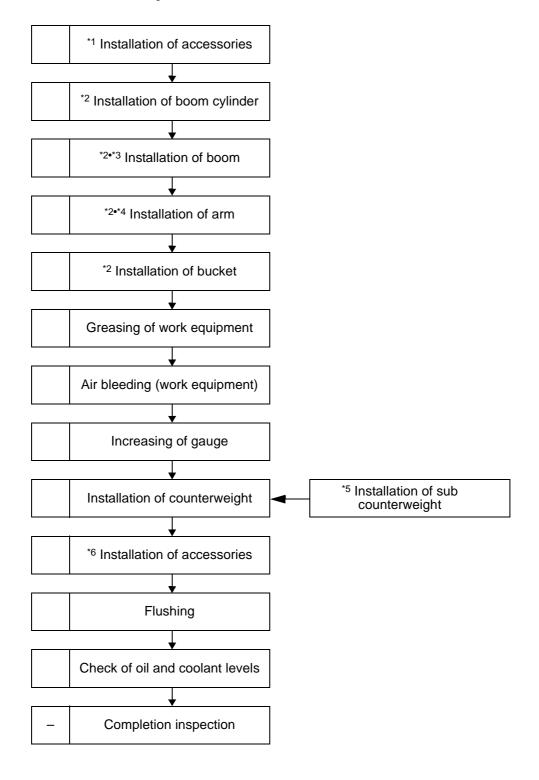
# Assembling procedures, applicable equipment and schedule <sup>3 Division</sup>



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### Flow of field assembly



#### Precautions

- \*1: Installation of grip, handrail, rear view mirror, tail pipe, and tail pipe cover
  \*2: Adjustment of shim
  \*3: Installation of working lamp
  \*4: Bucket cylinder and link are installed before shipment

- \*5: Installation of sound absorbing material, backup lamp, and rear view monitoring camera
- \*6: Installation of track frame step and travel piping cover