

# **FIELD ASSEMBLY INSTRUCTION**

FIELD ASSEMBLY INSTRUCTION

# **D85C-21 PIPELAYER**

|               |               |
|---------------|---------------|
| MACHINE MODEL | SERIAL NUMBER |
| D85C-21       | 37757 and up  |

**KOMATSU**

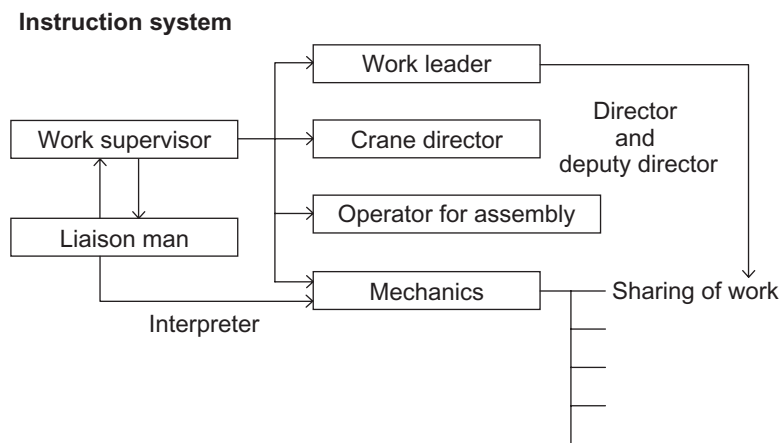
**KOMATSU**

D85C-21

# Preface

You are required to execute full inspection and maintenance before starting the engine and assembling the work equipment. Since the work is often carried out in dangerous places and positions by a team, hold a safety meeting in advance and appoint a crane director, work leader, etc. so that the all member can work safely.

When the work is carried out in an overseas country, difference in language, customs, etc. lowers safety. Accordingly, the field liaison man and work supervisor must examine the above point and take necessary measures.



We hope that the all members will cooperate with each other and assemble the work equipment quickly in the field, observing the safety, quality, and delivery time.

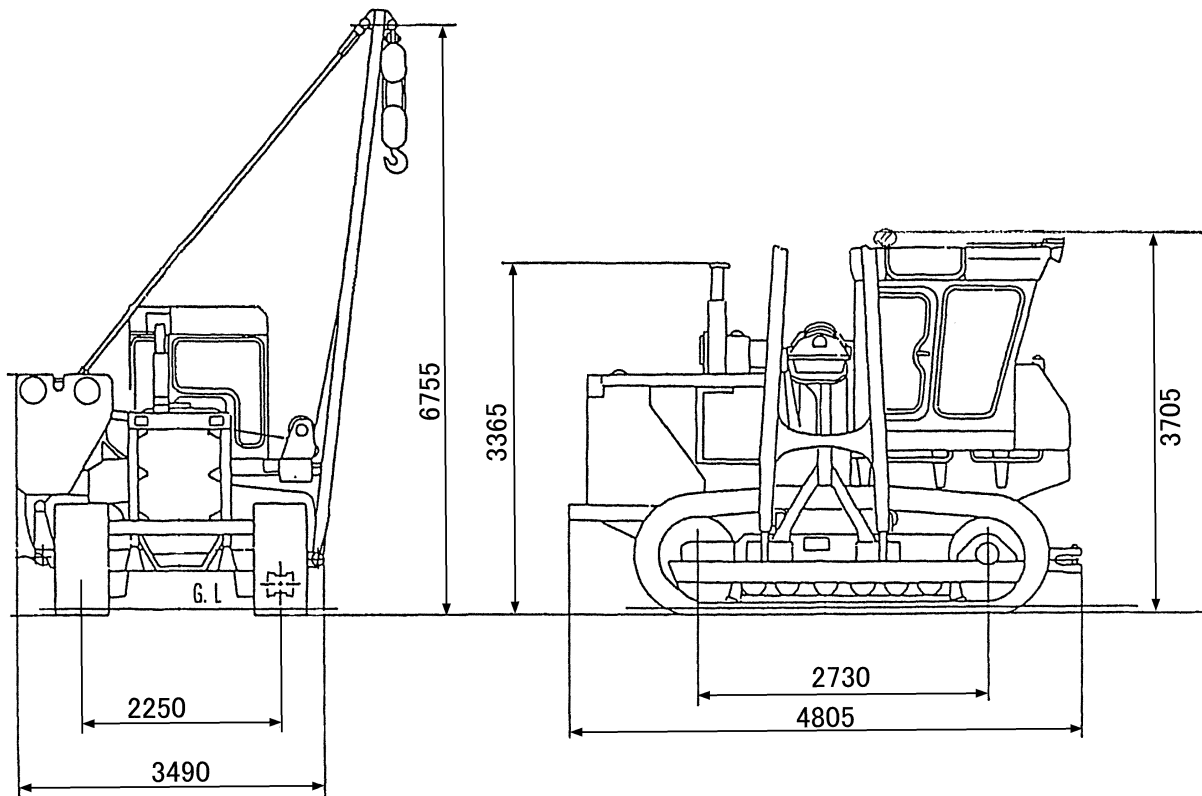
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| <br>   |    |
| FIELD ASSEMBLY INSPECTION REPORT   |    |

## SPECIFICATIONS

| Item   | Unit             | D85C-21                        |              |
|--|------------------|--------------------------------|--------------|
| Operating weight (excluding operator)                        | kg               | 30,210 *1                      |              |
| Weight of boom unit (Length: 7,300 mm)                       | kg               | 1,080                          |              |
| Weight of counterweight unit (including cylinder and weight) | kg               | 5,995                          |              |
| Engine name  | –                | KOMATSU S6D125-2 Diesel engine |              |
| Rated engine output  | kW/rpm {HP/rpm}  | 168/2,000 {225/2,000}          |              |
| Rated engine torque  | Nm/rpm {kgm/rpm} | 1,000/1,400 {102/1,400}        |              |
| Travel speed (1st/2nd/3rd)                                   | Forward          | km/h                           | 3.5/6.5/10.7 |
|  | Reverse          | km/h                           | 4.7/8.3/13.3 |
| Hook speed<br>(Converted in to speed of bare drum)           | Winding-in       | m/min                          | 9.6/21.7     |
|  | Winding-out      | m/min                          | 9.3/21.1     |

\*1: 6.2 m long boom, 610 mm shoe, with cab



## **PRECAUTIONS FOR FIELD ASSEMBLY**

### **1. Selection of workplace**

- 1) When selecting a workplace, consider the following items so that you can load and unload the machine.
  - Width
  - Hardness
  - Flatness
  - Access road, place for turn
- 2) Do not work in a place where dust, rainwater, etc. may enter the hydraulic circuit during assembling work.
- 3) Do not assemble while a strong wind is blowing or it is raining.

### **2. Preparation and check of slings and tools**

- 1) Check each sling and tool thoroughly. When using wood blocks, etc., check that their inside is not rotten or broken.

### **3. Check of actual work**

- 1) Apply the parking brakes of the trailer and crane truck securely and put chocks under their wheels.
- 2) Before starting the work lower the temperature and pressure of the engine oil, hydraulic oil, cooling water, etc.
- 3) When starting the engine, make an arranged sign such as sounding of the horn and check that the work equipment control lever and travel lever are in neutral and the fuel control dial (or fuel control lever) is at the low idling position.
- 4) When using the crane, balance the load.
- 5) Allow only the persons concerned into the workplace.

### **4. Before starting the work, read this manual thoroughly and keep the precautions in your mind.**

### **5. The supervisor shall write down the precautions for each work process and explain them to the workers.**

### **6. Hold a meeting every morning to check today's work plan and safe work.**

**ASSEMBLY PROCEDURE, NECESSARY EQUIPMENT, AND SCHEDULE**

|               | 1st day                                       |  | 2nd day  |   | 3rd day  |   |
|---------------|---|--|--|---|--|---|
|               | AM  | PM   | AM   | PM  | AM   | PM  |
|               | Unloading from trailer                        | Installation of exhaust pipe<br>Installation of lamps<br>Installation of cab sub-assembly (Lamps and accessories)  | Installation of counterweight<br>Installation of bracket, large link, small link, and cylinder to chassis sub-assembly | Supply of grease on counterweight side<br>Check of operation of counterweight and supply of oil<br>Installation of boom | Installation of hook<br>Winding of hook wire   | Assembly inspection<br>Check of oil and water levels and operating functions<br>Check of revolution of engine<br>Check for abnormal sound and smell |
|               | Removal of rust-preventive paint from chassis | Installation of cab<br>Piping of air conditioner and heater<br>Wiring<br>Charging air conditioner with refrigerant | Installation of hoses<br>Installation of weight  | Installation of upper sheave block<br>Installation of hook sheave block<br>Winding of boom wire                         | Installation of accessories of boom and hook<br>Check and supply of oil<br>Check of operation of completed machine<br>Test operation | Correction<br>Washing of machine<br>Touch-up painting   |
|               | Collection of parts packed separately         |  |  |   |  |   |
| Wrecker truck | 20 ton x 1 unit                               |  | 20 ton x 1 unit  |   | 20 ton x 1 unit  |   |
| Working time  | 6 H   |  | 6 H  |   | 7 H  |   |
| Number of     | 3   |  | 3  |   | 3  |   |
| Working time  | 18 H  |  | 18 H   |   | 21 H   |   |
|               |   |  |  |   |  | 57 H  |
|               |   |  |  |   |  | Total   |