

# Shop Manual

# 730E Trolley

**DUMP TRUCK**

SERIAL NUMBERS **A30600 - A30616**

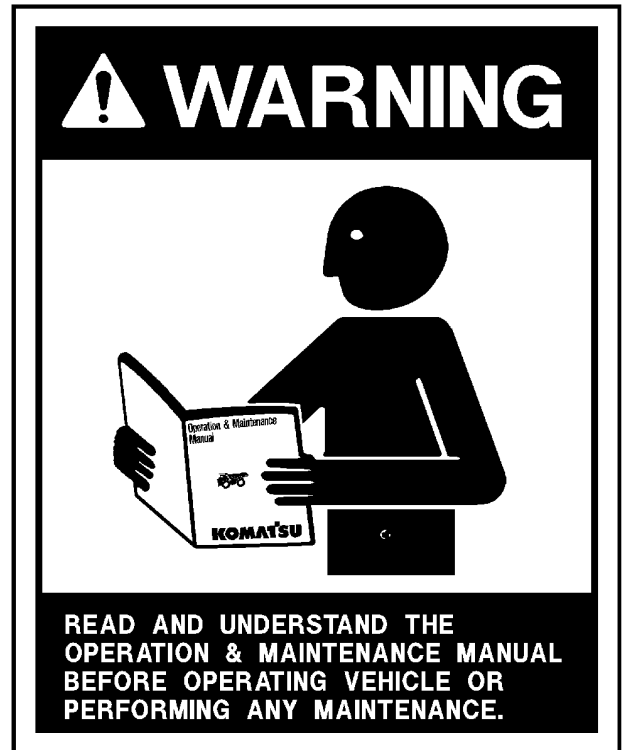
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*Unsafe use of this machine may cause serious injury or death. Operators and maintenance personnel must read and understand this manual before operating or maintaining this machine.*

*This manual should be kept in or near the machine for reference, and periodically reviewed by all personnel who will come into contact with it.*

### **CALIFORNIA Proposition 65 Warning**

*Diesel engine exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.*

### **CALIFORNIA Proposition 65 Warning**

*Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.*

### **CALIFORNIA Proposition 65 Warning**

*Mercury and mercury compounds are known to the State of California to cause developmental problems. This machine may be equipped with optional HID lamps which contain mercury. There is no risk of exposure unless the lamps are broken. However, the lamps must be reused, recycled or properly disposed of in accordance with Local, State and Federal Laws at the end of their useful lives.*



### **NON-OEM PARTS IN CRITICAL SYSTEMS**

***For safety reasons, Komatsu America Corp. strongly recommends against the use of non-OEM replacement parts in critical systems of all Komatsu equipment. Critical systems include but are not limited to steering, braking and operator safety systems.***

***Replacement parts manufactured and supplied by unauthorized sources may not be designed, manufactured or assembled to Komatsu's design specifications; accordingly, use of such parts may compromise the safe operation of Komatsu products and place the operator and others in danger should the part fail.***

***Komatsu is also aware of repair companies that will rework or modify an OEM part for reuse in critical systems. Komatsu does not generally authorize such repairs or modifications for the same reasons as noted above.***

***Use of non-OEM parts places full responsibility for the safe performance of the Komatsu product on the supplier and user. Komatsu will not in any case accept responsibility for the failure or performance of non-OEM parts in its products, including any damages or personal injury resulting from such use.***

## FOREWORD

This manual is written for use by the service technician. It is designed to help these persons to become fully knowledgeable of the truck and all its systems in order to keep it operating safely and efficiently. All operators and maintenance personnel must read and understand the materials in this manual before operating the truck or performing maintenance and/or operational checks on the truck. All safety notices, warnings, and cautions must be understood and followed when operating or repairing the truck.

The first section covers component descriptions, truck specifications and safe work practices, as well as other general information. The major portion of the manual pertains to disassembly, service, and reassembly. Each major serviceable component has a section in the shop manual. Disassembly of any component should only be done as far as necessary to accomplish needed repairs.

The illustrations used in this manual are, at times, typical of the component shown and may not necessarily depict a specific model.

This manual shows dimensioning in metric units and in U.S. English units. All references to Right, Left, Front, or Rear are made with respect to the operator's normal seated position, unless specifically stated otherwise.

Standard torque requirements for common fasteners are shown in torque charts in the general information section. Special torque requirements are provided in the text in bold face type, such as **135 N·m (100 ft lb)**. All torque specifications have  $\pm 10\%$  tolerance unless otherwise specified.

A product identification plate is located on the frame in front of the right side front wheel and designates the truck model number, product identification number (vehicle serial number), and maximum GVW (Gross Vehicle Weight) rating.

The Komatsu truck model designation consists of three numbers and one letter (i.e. 930E).

The three numbers represent the basic truck model.

The letter E, when present, designates an electrical wheel motor drive system.

The product identification number (vehicle serial number) contains information which will identify the original manufacturing bill of material for this unit. This complete number will be necessary for proper ordering of many service parts and/or warranty consideration.

The GVW is what determines the load on the drive train, frame, tires, and other components. The vehicle design and application guidelines are sensitive to the total maximum Gross Vehicle Weight (GVW). GVW is total weight: the empty vehicle weight + the fuel and lubricants + the payload.

To determine allowable payload, fill all lubricants and fuel tank to the proper level. Weigh the truck and record this value. Subtract it from the GVW to determine the allowable payload.

*NOTE: Accumulations of mud, frozen material, etc., become part of the GVW and reduces allowable payload. To maximize payload and to keep from exceeding the GVW rating, these accumulations must be removed as often as practical.*

Exceeding the allowable payload will reduce the expected life of truck components.

### **⚠ WARNING**

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