

# Shop Manual

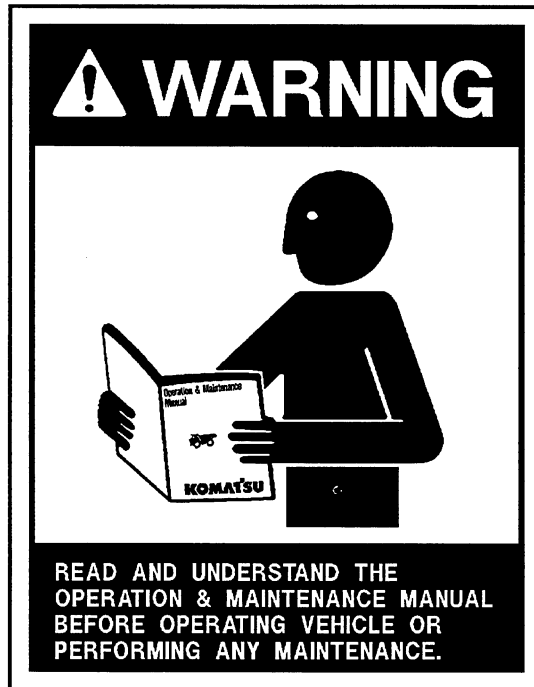
# 170D

## DUMP TRUCK

SERIAL NUMBERS **AFE28-A & UP**

# KOMATSU®





***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.***

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It is the policy of the Company to improve products whenever it is possible and practical to do so. The Company reserves the right to make changes or add improvements at any time without incurring any obligation to install such changes on products sold previously.

Because of continuous research and development, periodic revisions may be made to this publication. Customers should contact their local Komatsu distributor for information on the latest revision.

**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.*

## FOREWORD

This Service Manual is designed for use by the mechanic. The first section covers safe work practices, machine description and specifications of the machine as well as other general information. All maintenance personnel should read and understand the materials in this manual before performing maintenance and/or operational checks on the machine. All safety notices, warnings and cautions should be understood and followed when accomplishing repairs on the machine.

The major portion of the manual pertains to disassembly, service and re-assembly. Each major mechanical division is dealt with individually. For example: The disassembly, service and reassembly of the radiator group is discussed as a unit. The same is true of the engines and engine accessories, final drives and so on through the entire mechanical detail of the machine. Thus, if you have a repair problem on your machine, all material pertaining to that part or parts will be grouped together in one section, ready for your quick reference and use. Disassembly should be carried only as far as necessary to accomplish needed repairs. Unnecessary disassembly wastes time and money and increases possibilities of further repair requirements. One prime aim of this manual is to help you, the mechanic, become fully knowledgeable of the machine and all its systems. A fully qualified technician helps to keep the machine running and in production.

The illustrations used in this manual are, at times, typical of the component shown and do not necessarily refer to any one particular machine.

All location references "right" or "left" are made in respect to the operator's normal seated position.

Adoption of the International System of Units (SI) is underway in the U.S. industrial community. This manual shows dual dimensioning of U.S. standard and metric SI units throughout. Two exceptions are shown in torque figures and pressures. U.S. and common metric designations (pre-SI) are shown in the text with conversions to SI units provided in conversion charts in Section "N".

Standard and special torque requirements are shown in torque charts in the general information section and individual torques are provided in the text in bold face type: such as **100 ft. lbs. (135 N-m)**.



**caution**

THESE TWO SYMBOLS ARE INTERSPERSED THROUGHOUT THE MANUAL TO ATTRACT THE OPERATOR'S AND THE MECHANIC'S ATTENTION FOR SPECIFIC POINTS AND SITUATIONS.

THE *CAUTION* SYMBOL IS UTILIZED PRIMARILY IN SITUATIONS WHERE IT IS IMPORTANT TO PREVENT EQUIPMENT DAMAGE DUE TO IMPROPER OPERATING OR MAINTENANCE PRACTICES.

THE *WARNING* SYMBOL POINTS OUT THOSE ACTIONS WHICH, IF IMPROPERLY ACCOMPLISHED, MAY RESULT IN SERIOUS PERSONAL INJURY TO THE OPERATOR, MECHANIC OR BYSTANDERS.

THE WARNINGS AND CAUTIONS ARE INSERTED INTO THE MANUAL FOR ONE PURPOSE ONLY -- TO MAKE THE OPERATOR AND THE MECHANIC MORE EFFICIENT AND THE VEHICLE A DEPENDABLE PRODUCTIVE EARTHMOVER. HEED EACH OF THESE SYMBOLS AND THE INSTRUCTIONS IT CALLS OUT THROUGHOUT THE MANUAL.



**WARNING**

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