

Shop Manual

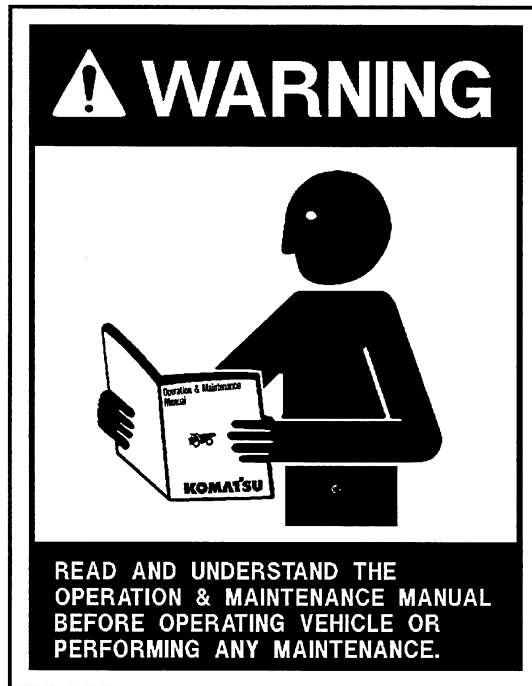
830E

HAULPACK TRUCK

SERIAL NUMBERS **AFE32-S**
AFE32-A – AFE32-P
AFE32-AQ – AFE32-AR
AFE32-U – AFE32-AM

KOMATSU[®]

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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.

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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.

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FOREWORD

This Service Manual is written for use by the service technician and is designed to help the technician become fully knowledgeable of the truck and all its systems in order to keep it running and in production. All maintenance personnel should read and understand the materials in this manual before performing maintenance and/or operational checks on the truck. All safety notices, warnings and cautions should be understood and followed when accomplishing repairs on 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 area 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 engine and engine accessories, and so on through the entire mechanical detail of the truck. Disassembly should be carried only as far as necessary to accomplish needed repairs.

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

This manual shows dimensioning of U.S. standard and metric (SI) units throughout and 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 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)** torque. All torque specifications have $\pm 10\%$ tolerance unless otherwise specified.

The HAULPAK[®] model designation is based on maximum **Gross Vehicle Weight (GVW)**.

Model numbers consist of three numbers and one letter (i.e. 830E). The three numbers represent the maximum gross vehicle weight (GVW) in **thousands of pounds**. This number reflects the maximum loaded weight of the vehicle rounded to the nearest 5,000 lbs. (2 268 kg). The letter "M" or "E" stands for Mechanical or Electrical drive system.

This model designation is a job-rating or range rating concept which establishes well defined **maximum** gross vehicle weights for both design and application guidelines. The vehicle is sensitive to the total GVW. The GVW is what determines the load on the drive train, frame, tires, and other components.

Maximum GVW means the **total weight**, which is: the Empty Vehicle Weight (EVW) + the fuel + the payload.

To determine allowable payload: Fill fuel tank of empty truck and weigh truck. Record this value and subtract from GVW rating. The result is the allowable payload.

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



This "ALERT" symbol is used with the signal words, "CAUTION", "DANGER", and "WARNING" in this manual to alert the reader to hazards arising from improper operating and maintenance practices.

 **DANGER**

*"DANGER" identifies a specific potential hazard
WHICH WILL RESULT
in either INJURY OR DEATH
if proper precautions are not taken.*

 **WARNING**

*"WARNING" identifies a specific potential hazard
WHICH MAY RESULT
in either INJURY OR DEATH
if proper precautions are not taken.*

 **CAUTION**

*"CAUTION" is used for general reminders
of proper safety practices
OR
to direct the reader's attention to avoid unsafe
or improper practices which may result
in damage to the equipment.*

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