

# Operation & Maintenance Manual

# HD325-7 HD405-7

## DUMP TRUCK

### SERIAL NUMBERS

HD325        - 7582 and up  
HD405        - 7582 and up



#### WARNING

Unsafe use of this machine may cause serious injury or death. Operators and maintenance personnel must read this manual before operating or maintaining this machine. This manual should be kept inside the cab for reference and periodically reviewed by all personnel who will come into contact with the machine.

**ORIGINAL INSTRUCTIONS**

Sample of manual. Download All 398 pages at:

<https://www.aresairmanual.com/downloads/komatsu-hd325-7hd405-7-rigid-dump-truck-operation-maintenance-manualeeam029201/>

**KOMATSU**

Product: KOMATSU HD325-7,HD405-7 Rigid Dump Truck Operation & Maintenance Manual(EEAM029201)  
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# **FOREWORD**

## BEFORE READING THIS MANUAL

This manual gives details of the operation and methods of inspection and maintenance for this machine that must be obeyed in order to use the machine safely. Most accidents are caused by the failure to follow fundamental safety rules for the operation and maintenance of machines.

Read, understand and follow all precautions and warnings in this manual and on the machine before performing operation and maintenance. Failure to do so may result in serious injury or death.

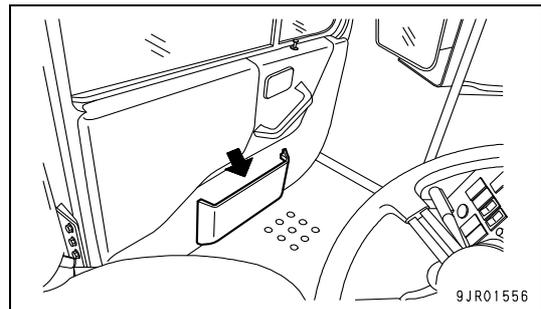
Komatsu cannot predict every circumstance that might involve a potential hazard when the machine is used. Therefore, the safety messages in this manual and on the machine may not include all possible safety precautions. If you carry out any operation, inspection, or maintenance under conditions that are not described in this manual, understand that it is your responsibility to take the necessary precautions to ensure safety. In no event should you or others engage in the prohibited uses or actions described in this manual. Improper operation and maintenance of the machine can be hazardous and could result in serious injury or death.

If you sell the machine, be sure to give this manual to the new owner together with the machine.

Always keep this Operation and Maintenance Manual in the location shown on the right so that all relevant personnel can read it at any time.

Storage location for the Operation and Maintenance Manual:

On inside of left door



If this manual is lost or damaged, contact your distributor immediately to arrange for its replacement. For details regarding the machine serial No. you will need to provide your Komatsu distributor, see "TABLE TO ENTER SERIAL NO. AND DISTRIBUTOR (1-9)".

This manual uses the international units (SI) for units of measurement. For reference, units that have been used in the past are given in ( ).

The explanations, values, and illustrations in this manual have been prepared based on the latest information available as of the date of its publication. Continuing improvements in the design of this machine may lead to additional changes that are not reflected in this manual. Consult Komatsu or your Komatsu distributor for the latest available information concerning your machine or with questions regarding information contained in this manual.

- The numbers in circles in the illustrations correspond to the numbers in ( ) in the text.  
(For example: ① → (1))

Komatsu delivers machines that comply with all applicable regulations and standards of the country to which it has been shipped. If this machine has been purchased in another country, it may lack certain safety devices and specifications that are necessary for use in your country. If there is any question about whether your product complies with the applicable standards and regulations of your country, consult Komatsu or your Komatsu distributor before operating the machine.

## SAFETY INFORMATION

To enable you to use the machine safely, and to prevent injury to operators, service personnel or bystanders, the precautions and warnings included in this manual and the safety signs attached to the machine must always be followed.

To identify important safety messages in the manual and on the machine labels, the following signal words are used.

The “Safety Alert Symbol” identifies important safety messages on machines, in manuals, and elsewhere. When you see this symbol, be alert to the risk of personal injury or death. Follow the instructions in the safety message.



This signal word indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



This signal word indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



This signal word indicates a potentially hazardous situation exists which, if not avoided, may result in minor or moderate injury.

The following signal words are used to alert you to information that must be followed to avoid damage to the machine.

### NOTICE

This precaution is given where the machine may be damaged or the service life reduced if the precaution is not followed.

### REMARKS

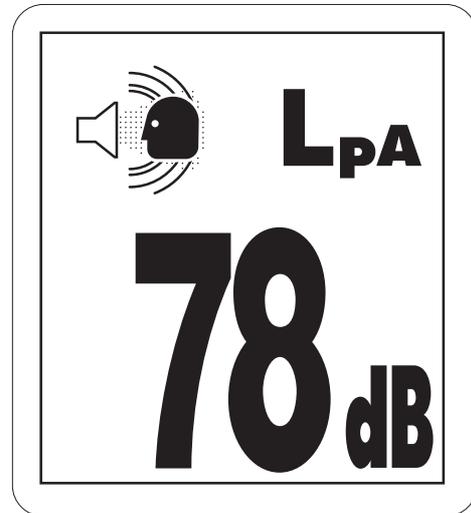
This word is used for information that is useful to know.

## Noise emission levels

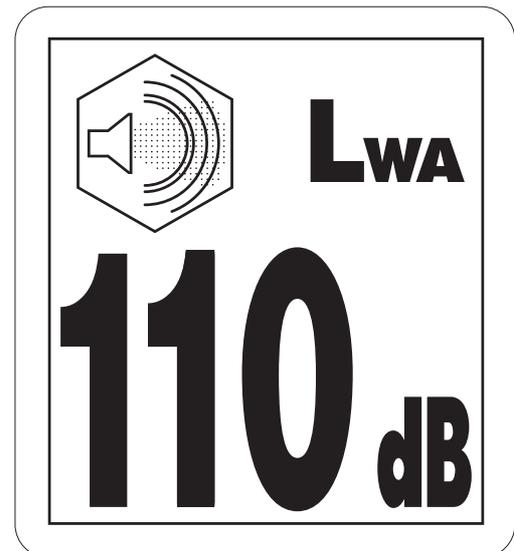
Two labels indicating the machine noise level are affixed on the machine.

- Sound pressure level at the operator's station, measured according to ISO6396 (Dynamic test method, simulated working cycle)

The maximum value of the standard deviation of the measured time-averaged A-weighted emission sound pressure level at the operator's position is 2.5 dB, in accordance with ISO 11201



- Sound power level emitted by the machine, measured according to ISO 6395 (Dynamic test method, simulated working cycle). This is the guaranteed value as specified in European directive 2000/14/EC. This value includes an uncertainty of 2.0 dB



## Vibration levels

When used for its intended purpose, levels of vibration for the earth-moving machine transmitted from the operator's seat are lower than or equal to the tested vibrations for the relative machinery class in compliance with ISO 7096.

### For HD325-7

The actual acceleration value for the hands and arms is less than or equal to 2.5 m/s<sup>2</sup>, the uncertainty for this value is 0.68 m/s<sup>2</sup> according EN 12096:1997.

The actual acceleration value for the body is less than or equal to 0.5 m/s<sup>2</sup>, the uncertainty for this value is 0.29 m/s<sup>2</sup> according EN 12096:1997.

### FOR HD405-7

The actual acceleration value for the hands and arms is less than or equal to 2.5 m/s<sup>2</sup>, the uncertainty for this value is 0.55 m/s<sup>2</sup> according EN 12096:1997.

The actual acceleration value for the body is less than or equal to 0.5 m/s<sup>2</sup>, the uncertainty for this value is 0.28 m/s<sup>2</sup> according EN 12096:1997.

These values were determined using a representative machine and measured during the typical operating condition indicated below according to the measurement procedures that are defined in the standards ISO 2631/1 and ISO 5349.

### Operating condition:

(Rigid/Articulate dumper:) Work cycle (including waiting, travelling, loading, travelling with load, unloading, and travelling without load)

### Guide to Reduce Vibration Levels on Machine

The following guides can help an operator of this machine to reduce the whole body vibration levels:

1. Use the correct equipment and attachments.
2. Maintain the machine according to this manual
  - Tire pressures (for wheeled machines), tension of crawler (for crawler machines)
  - Brake and steering systems
  - Controls, hydraulic system and linkages
3. Keep the terrain where the machine is working and traveling in good condition
  - Remove any large rocks or obstacles
  - Fill any ditches and holes
  - Site manager should provide machine operators with machine and schedule time to maintain terrain conditions
4. Use a seat that meets ISO 7096 and keep the seat maintained and adjusted
  - Adjust the seat and suspension for the weight and size of the operator
  - Wear seat belt
  - Inspect and maintain the seat suspension and adjustment mechanisms
5. Steer, brake, accelerate, shift gears (for wheeled machines), and move the attachment levers and pedals slowly so that the machine moves smoothly
6. Adjust the machine speed and travel path to minimize the vibration level

- When pushing with bucket or blade, avoid sudden loading; load gradually
  - Drive around obstacles and rough terrain conditions
  - Slow down when it is necessary to go over rough terrain
  - Make the curve radius of traveling path as large as possible
  - Travel at low speed when traveling around sharp curves
7. Minimize vibrations for long work cycle or long distance traveling
- Reduce speed to prevent bounce
  - Transport machines long distances between worksites
8. The following guidelines can be effective to minimize risks of low back pain
- Operate the machine only when you are in good health.
  - Provide breaks to reduce long periods of sitting in the same posture
  - Do not jump down from the cab or machine
  - Do not repeatedly handle and lift loads

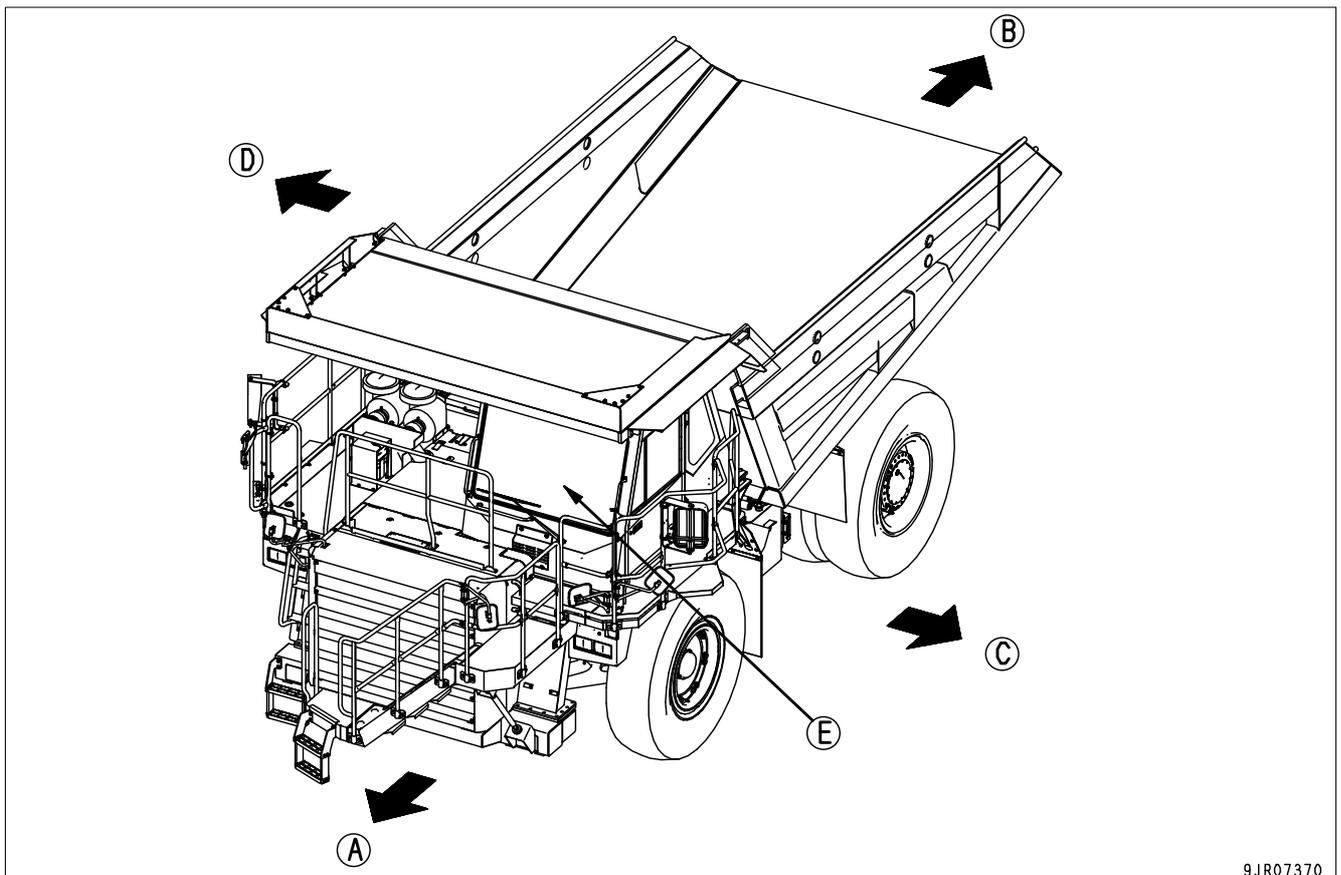
## INTENDED USE

### USE OF MACHINE

This Komatsu machine is designed to be used mainly for the following work:

- Travelling with a load

### DIRECTIONS OF MACHINE



9JR07370

In this manual, the directions of the machine (front, rear, left, right) are determined according to the view from the operator's seat in the direction of travel (front) of the machine.

- |           |                     |
|-----------|---------------------|
| (A) FRONT | (D) RIGHT           |
| (B) REAR  | (E) OPERATOR'S SEAT |
| (C) LEFT  |                     |

### VISIBILITY FROM OPERATOR'S SEAT

This machine complies with the visibility standard (ISO 5006).

This machine maintains a close visibility of a height of 1.5 m at a point 1 m away from the outside surface of the machine, and a visibility for a circumference of 12 m.

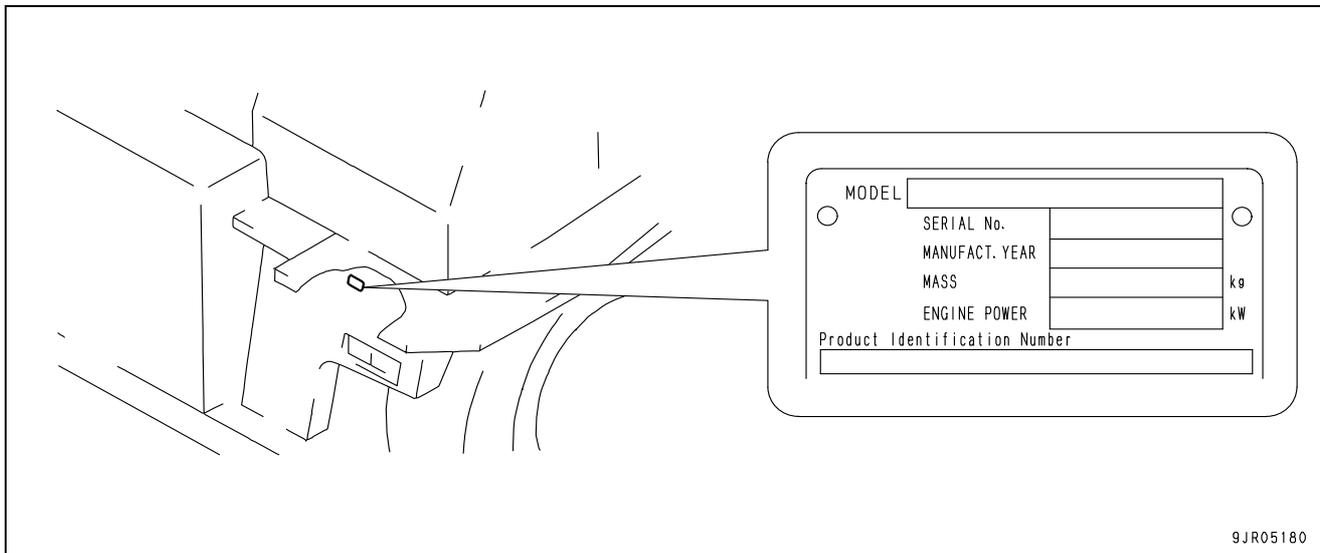
# LOCATION OF PLATES, TABLE TO ENTER SERIAL NO. AND DISTRIBUTOR

When requesting service or ordering replacement parts, please inform your Komatsu distributor of the following items.

## PRODUCT IDENTIFICATION NUMBER (PIN)/MACHINE SERIAL NO. PLATE

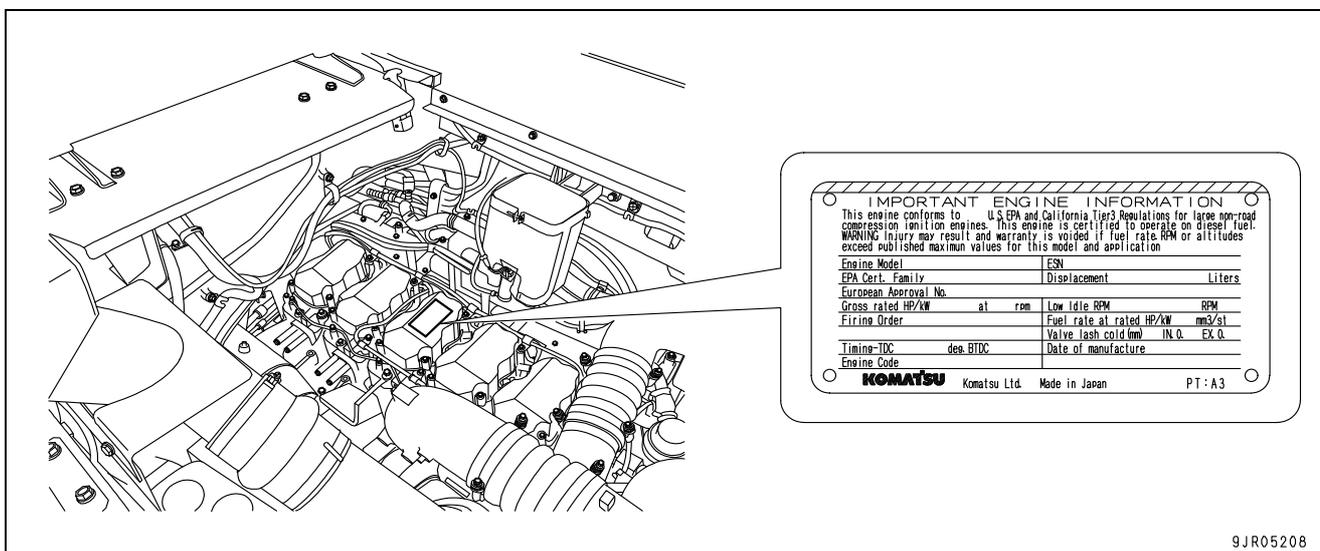
It is located on the left front end of the frame.

The design of the nameplate differs according to the territory.



## EPA REGULATIONS, ENGINE NUMBER PLATE

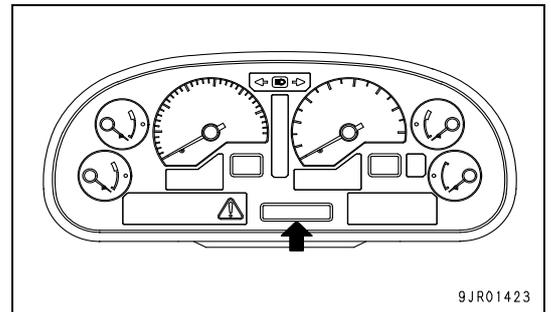
On the top of the engine cylinder head cover.



EPA: Environmental Protection Agency, U.S.A.

**SERVICE METER POSITION**

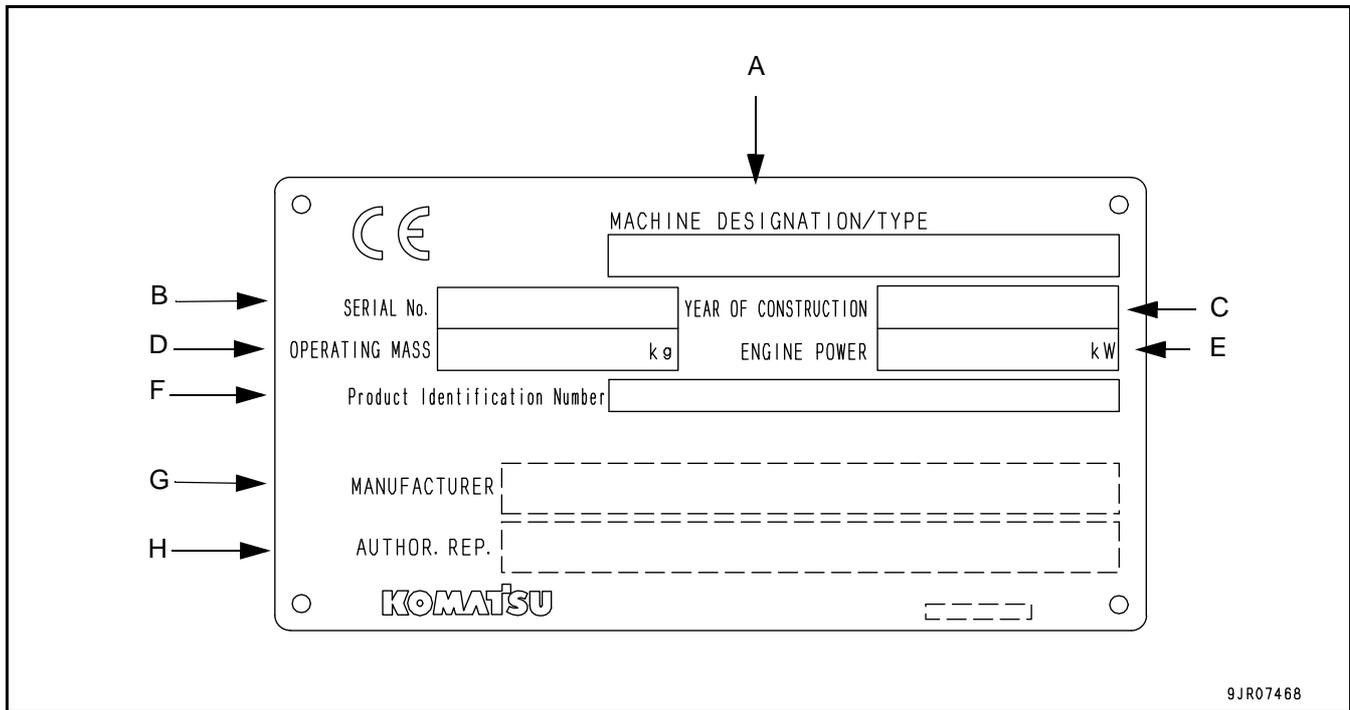
It is at the center bottom of the machine monitor.



**TABLE TO ENTER SERIAL NO. AND DISTRIBUTOR**

Machine serial No.	
Engine serial No.	
Product identification number (PIN)	
Manufacturers name: Address:	KOMATSU LTD. 2-3-6 Akasaka Minato-ku, Tokyo 107-8414 Japan
Authorised representative: Address:	KOMATSU EUROPE INT. Mechelsesteenweg 586 B-1800 Vilvoorde Belgium
Distributor name	
Address	
Service Personnel	
Phone/Fax	

**MACHINE SERIAL NUMBER PLATE (according directive 2006/42/EC)**



A	Machine designation/type	E	Engine power
B	Serial Number	F	Product Identification Number
C	Year of construction	G	Manufacturer
D	Operating mass	H	Authorised representative

**Declaration according Directive 2006/42/EC Annex I point 1.7.4.2 (c)**

The manufacturer/Authorized representative

The manufacturer	Authorized representative
KOMATSU LTD. 2-3-6 Akasaka Minato-ku, Tokyo 107-8414 Japan	KOMATSU EUROPE INT. Mechelsesteenweg 586 B-1800 Vilvoorde Belgium

Declares that this machine

HD325-7

HD405-7

Fulfills all the relevant provisions of following EC Directives:

Machinery Directive	2006/42/EC
Electro Magnetic Compatibility Directive	2004/108/EC
Outdoor noise Directive	2000/14/EC amended by 2005/88/EC

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## INDEX

## COLOPHON



# SAFETY



## WARNING

Please read and make sure that you fully understand the precautions described in this manual and the safety labels on the machine. When operating or servicing the machine, always follow these precautions strictly.

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# SAFETY

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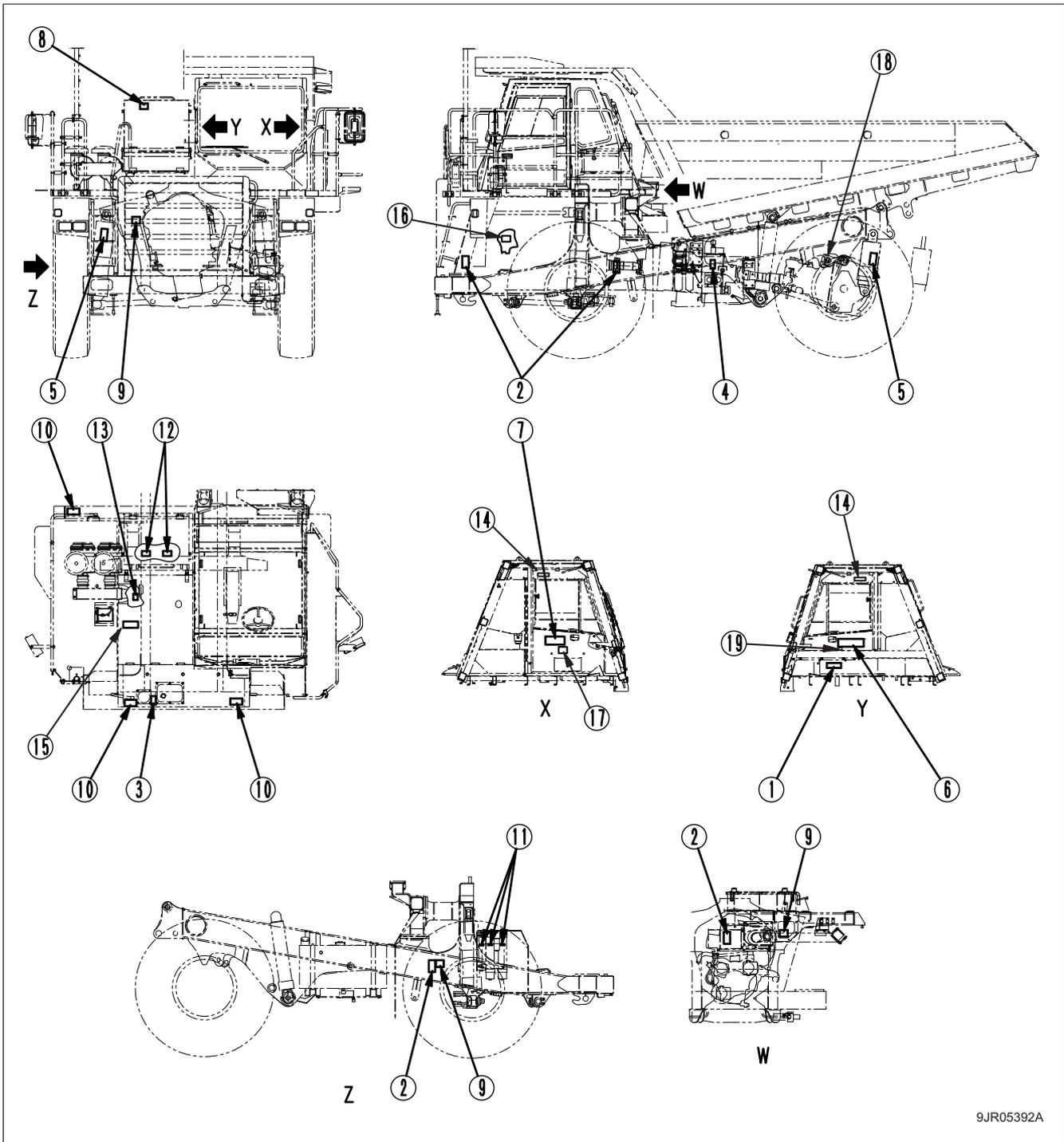
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## SAFETY LABELS

The following warning signs and safety labels are used on this machine.

- Be sure that you fully understand the correct position and content of labels.
- To ensure that the content of labels can be read properly, be sure that they are in the correct place and always keep them clean. When cleaning them, do not use organic solvents or gasoline. These may cause the labels to peel off.
- There are also other labels in addition to the warning signs and safety labels. Handle those labels in the same way.
- If the labels are damaged, lost, or cannot be read properly, replace them with new ones. For details of the part numbers for the labels, see this manual or the actual label, and place an order with Komatsu distributor.

### POSITION FOR ATTACHING SAFETY LABELS



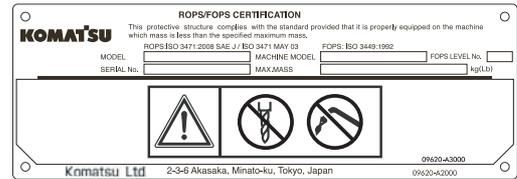
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## SAFETY LABELS

### (1) Caution for modification of ROPS/FOPS (09620-A2000, 09620-A3000))

#### ROPS CERTIFICATION

This protective structure complies with the standard provided that it is properly equipped on the machine which mass is less than the specified maximum mass.



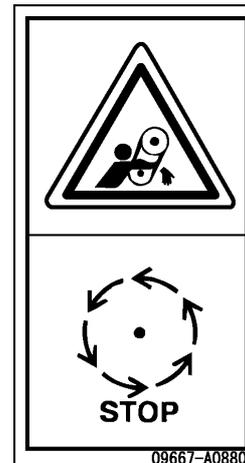
### WARNING

- If some modification is applied to the ROPS, it might not enough strength and might not complied with the standard. Consult Komatsu distributor before altering.
- ROPS may provide less protection if it has been structurally damaged or involved roll-over. Consult Komatsu Distributor in that case.
- Always wear seat belt when moving.

### (2) Caution for rotation of engine fan, fan belt

(09667-A0880)

- Sign indicates a hazard of rotating parts, such as belt.
- Turn off before inspection and maintenance.



### (3) Caution for opening radiator cap (09653-A0641)

- Sign indicates a burn hazard from spurting hot water or oil if radiator or hydraulic tank is uncapped while hot.
- Allow radiator or hydraulic tank to cool before removing cap.



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(4) Caution for opening hydraulic tank cap (09653-A0641)

- Sign indicates a burn hazard from spurting hot water or oil if radiator or hydraulic tank is uncapped while hot.
- Allow radiator or hydraulic tank to cool before removing cap.



(5) Warning for handling suspension (09659-A0881)

- There is the hazard of explosion causing injury.
- Do not disassemble the accumulator, make holes in it, weld it, cut it, hit it, roll it or bring it near flame.

